



# MACPRESSE EUROPA

## MAC/2 SERIES



MUNICIPAL SOLID  
WASTE PROCESSING



RENEWABLE ENERGY  
AND BIOMASS



RECYCLING SECONDARY  
RAW MATERIAL



PAPER INDUSTRY







## MACPRESSE PRODUCTS, OUR DISTINCTIVE VALUES

### PRODUCTION EFFICIENCY

Cutting efficiency and production optimisation (m<sup>3</sup>/h), high output specific weight.

### REMOTE SOFTWARE SUPPORT

Integrated troubleshooting modem.

### ENERGY SAVING

First class Bosch-Rexroth hydraulic pumps.

### MACPRESSE TYING

Highly customisable system using plastic wire, steel wire or double steel wire.

### HIGH WEAR RESISTANCE

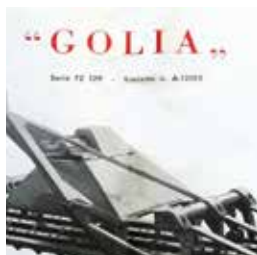
Patented HARDOX steel liners.

### HIGH EFFICIENCY MOTORS

High efficiency IE3 motors, reduced electricity consumption compared with traditional motors.

# MACPRESSE

## TIMELINE



**1961**

Meccanica  
Agricola  
Cartaria



**1968**

FIRST PRESS FOR BALING  
PAPER



**1970**

FIRST  
AUTOMATIC  
PRESS



**1991**

NEW FACILITIES  
11.000 m<sup>2</sup>  
COVERED SPACE



**1996**

EXPANSION OF  
FACILITIES 17.000 m<sup>2</sup>  
COVERED SPACE

**1974**

MILAN  
FACTORY



**2010**

STEEL  
STRUCTURAL WORK  
PRODUCTION SITE  
3.000 m<sup>2</sup>



**FOUNDED BY THE SCOTUZZI FAMILY  
IN 1805, MACPRESSE IS NOW  
DOING BUSINESS IN MORE THAN  
50 COUNTRIES WORLDWIDE.**

MID  
900

ESTABLISHED IN  
BRESCIA, IN A  
SMALL WORKSHOP  
WHERE THE FIRST  
AGRICULTURAL  
MACHINERY WAS  
MANUFACTURED



# MACPRESSE QUALITY PROCESS

LIFE CYCLE OF MACPRESSE  
PRODUCTS, FROM DESIGN  
TO ON-SITE ASSEMBLY

STEP 1  
DESIGN



STEP 2  
COMPUTER NUMERICAL  
CONTROL (CNC)



STEP 3  
STRUCTURAL STEEL  
CONSTRUCTION



STEP 4  
PRODUÇÃO  
E MONTAGEM



STEP 5  
PAINTING



STEP 6  
TESTING



STEP 7  
STORAGE



STEP 8  
DELIVERY



STEP 9  
ON-SITE ASSEMBLY



STEP 10  
COMMISSIONING/  
TRAINING



STEP 11  
LOCAL TECHNICAL IN  
40 COUNTRIES



STEP 12  
SPARE PARTS  
INVENTORY





## WORKING WITH MACPRESSE RESEARCH

**ALL NEW EQUIPMENT IS DESIGNED UTILIZING THE COMPANY'S MANY DECADES OF EXPERIENCE AND ENGINEERING EXPERTISE. MACPRESSE IS ATTENTIVE TO MARKET NEEDS AND CUSTOMER INPUT.**

MACPRESSE IS A GLOBAL LEADER IN EQUIPMENT DESIGN FOR THE TREATMENT OF WASTE AND RECYCLABLES.



## WORKING WITH MACPRESSE DESIGN

DESIGNED AND MANUFACTURED ENTIRELY IN MILAN (ITALY), AT THE MACPRESSE FACTORIES

- TECHNOLOGICALLY ADVANCED
- BUILT WITH EXTRA HEAVY CONSTRUCTION
- DESIGNED FOR LONG LIFE
- MADE WITH ATTENTION TO EVERY DETAIL WITH AUTOCAD DESIGN AND CNC MACHINERY
- MADE WITH THE BEST AVAILABLE COMPONENTS AND MATERIALS



WORKING WITH MACPRESSE

# COMPUTER NUMERICAL CONTROL (CNC)

OUR RESULTING RESEARCH HAS ALLOWED US TO CREATE A TEAM OF ENGINEERS AND PROFESSIONALS FROM ALL PARTS OF THE WORLD WITH SUPERB TRAINING AND HIGHLY TECHNICAL EXPERIENCES. OUR COLLECTIVE KNOWLEDGE ALLOWS US TO MAKE EVERY MACPRESSE MACHINE WITH DETAILED ATTENTION TO ALL CONSTRUCTION FEATURES USING AUTOCAD DESIGN AND CNC MACHINERY.





WORKING WITH MACPRESSE

# STRUCTURAL STEEL CONSTRUCTION



**WE ARE CONSTANTLY EVALUATING NEW DESIGNS AND METHODS TO DEVELOP INNOVATIVE SYSTEMS AND EQUIPMENT DESIGNED TO EFFICIENTLY PROCESS AND TREAT VARIOUS KINDS OF WASTE AND RECYCLABLES.**

THE SMALLEST DETAILS OF EVERY NEW PRODUCT ARE STUDIED, BRINGING TOGETHER THE COMPANY'S MANY YEARS OF EXPERIENCE, ENGINEERING EXCELLENCE AND CONTINUOUS AWARENESS OF THE NEEDS OF THE DEVELOPING MARKET, WITH SPECIAL ATTENTION TO THE PARTICULAR REQUIREMENTS OF EACH COUNTRY IN WHICH WE OPERATE.

REPLACEABLE BOLT-IN LINERS MADE OF HARDOX WEAR-RESISTANT STEEL, EXTENDS USEABLE LIFE OF THE BALERS. THE SPECIAL LINERS ARE BOLTED IN THE EXTRUSION CHANNELS AND COMPACTION CHAMBER IN CONTACT WITH RAW MATERIALS. THIS IS A TREND SET BY MACPRESSE.





# WORKING WITH MACPRESSE PRODUCTION AND ASSEMBLY



**WE ARE CONSTANTLY EVALUATING NEW DESIGNS AND METHODS TO DEVELOP INNOVATIVE SYSTEMS AND EQUIPMENT DESIGNED TO EFFICIENTLY PROCESS AND TREAT VARIOUS KINDS OF WASTE AND RECYCLABLES.**





# WORKING WITH MACPRESSE PAINTING

**USE OF WATER-BASED PAINT WITH LOW  
ENVIRONMENTAL IMPACT**



## QUALITY CONTROL

**OUR QUALITY GUARANTEE IS BASED ON A PROPRIETARY  
PROCESS DESIGNED IN-HOUSE THAT REQUIRES EXACTING  
TEST ON ALL MECHANICAL COMPONENTS, THEREBY ENSURING  
PROPER OPERATION BEFORE AND AFTER INSTALLATION.**

Prior to releasing any Macpresse equipment to our customers, a comprehensive review is made on all hydraulic and mechanical pressures.



## WORKING WITH MACPRESSE STORAGE & DELIVERY



## ON-SITE ASSEMBLY, & START-UP

**THE ASSEMBLY IS PERFORMED WORLDWIDE BY QUALIFIED SERVICE CENTERS. AT THE END OF EACH INSTALLATION THERE IS A TRAINING PERIOD FOR THE PERSONNEL IN CHARGE OF THE USE AND MAINTENANCE OF THE MACHINES.**





# WORKING WITH MACPRESSE GLOBAL SUPPORT

**MACPRESSE IS PRESENT THROUGHOUT THE WORLD THANKS TO ITS SKILLS AND EXCELLENCE IN MANUFACTURING WASTE MATERIAL RECYCLING AND PROCESSING PLANTS**

OUR CUSTOMERS CAN RELY ON AFTER-SALES SUPPORT THROUGHOUT THE 5 CONTINENTS. WE DESIGN CUSTOMISED SOLUTIONS AND THANKS TO OUR TEAM OF SKILLED TECHNICIANS THE AFTER-SALES NETWORK CAN GUARANTEE MINIMUM MACHINE DOWNTIMES.



SERVICE AND REFERENCE



**MACPRESSE SPARE PARTS STORES ARE PRESENT IN OVER 50 COUNTRIES WHERE WE EXPORT. WE PROVIDE TRACKING AND CODING OF ALL THE SPARE PARTS TO GUARANTEE THAT STOCK IS ALWAYS AVAILABLE. WE MAINTAIN OVER 3 MILLION EUROS OF SPARE PARTS STOCK TO SUPPORT CUSTOMERS IN 5 CONTINENTS.**

# ADVANTAGES OF SERIES/2

## COMPARISON WITH PREVIOUS SERIES

### MAIN CYLINDER

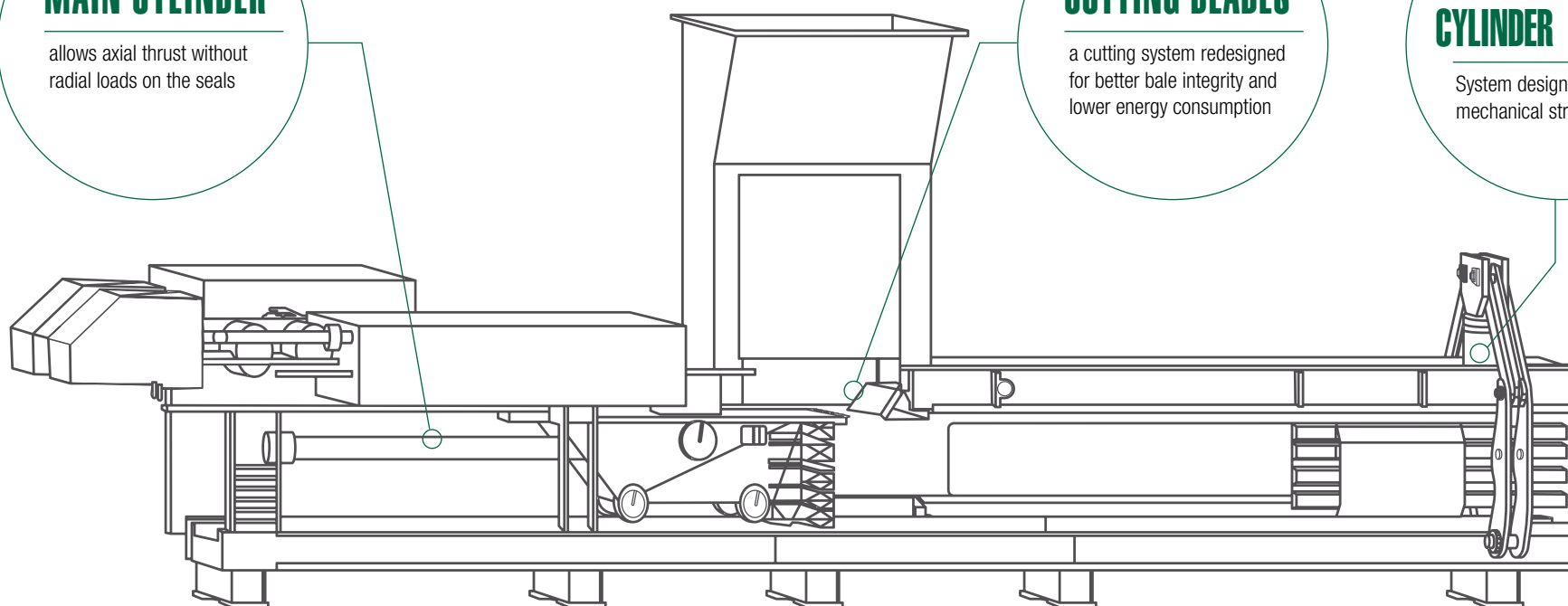
allows axial thrust without radial loads on the seals

### CUTTING BLADES

a cutting system redesigned for better bale integrity and lower energy consumption

### COUNTER-PRESSURE CYLINDER

System designed to avoid mechanical stress



**+30%**

### ENERGY EFFICIENCY

IE3 high efficiency motors.

**+10%**

### PRODUCTIVITY

Increased thanks to the innovations introduced to the hydraulic system.

**+10%**

### ROBUSTNESS

reinforced structure, completely redesigned using high resistant steel.

**+12%**

### HOPPER DIMENSIONS

larger load hopper dimensions

**+30%**

### ACCESSIBILITY

compacting chamber equipped with 2 larger size access doors.

**+45%**

### XL CHANNEL

longer extrusion channel **+1.5 m (59")** for better bale density.



# MAC 106/2 & MAC 107/2 DESIGNED FOR MIDSIZE RECYCLING PLANTS, SRF & ENGINEERED FUEL



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING SECONDARY  
RAW MATERIAL



RENEWABLE ENERGY &  
ENGINEERED FUELS



PAPER INDUSTRY

# MAC 106/2 & MAC 107/2

## GENERAL DESCRIPTION





# MATERIALS PROCESSED AND PERFORMANCE



PET



OCC



MIXED PAPER



RDF/SRF

INFEED DENSITY



EUROPE

25/30 kg/m<sup>3</sup>

70/80 kg/m<sup>3</sup>

100/120 kg/m<sup>3</sup>

150/200 kg/m<sup>3</sup>

USA

1.56/1.87 lb/ft<sup>3</sup>

4.37/5 lb/ft<sup>3</sup>

6.24/7.5 lb/ft<sup>3</sup>

9.36/12.5 lb/ft<sup>3</sup>

Mac 106/2

EUROPE

PET 6 TON/H

OCC 12 TON/H

MIX PAPER 20 TON/H

RDF 24 TON/H

USA

PET 6.6 TON (US)/H

OCC 13.2 TON (US)/H

MIX PAPER 22 TON (US)/H

RDF 26.4 TON (US)/H

Mac 107/2

EUROPE

PET 7 TON/H

OCC 13.5 TON/H

MIX PAPER 22 TON/H

RDF 26.5 TON/H

USA

PET 7.7 TON (US)/H

OCC 14.8 TON (US)/H

MIX PAPER 24.2 TON (US)/H

RDF 29.1 TON (US)/H

MODEL  
**MAC 106/2**





# 60 HP

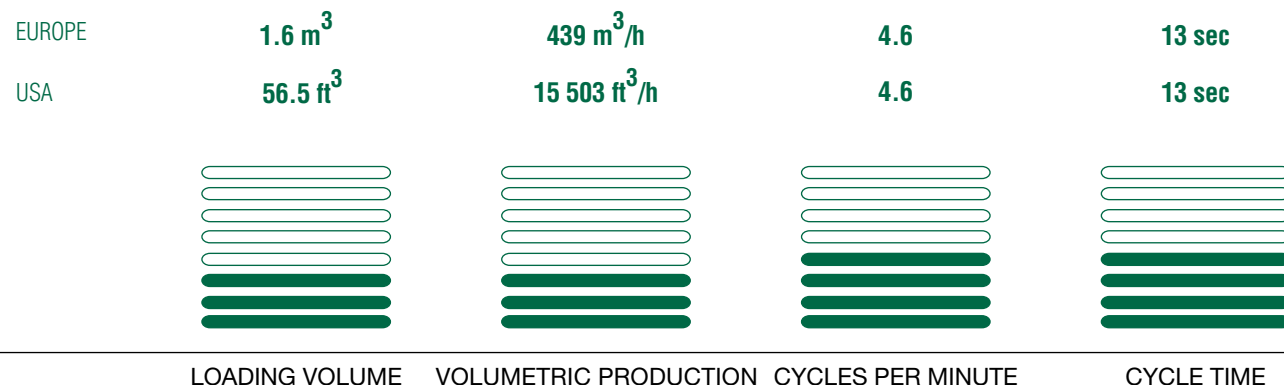
MOTOR POWER

## CUTTING AND THRUST POWER

# 75 TON / 165 500 LB

### NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.



### TECHNICAL DATA

#### MAIN MOTOR POWER

45 kw

#### MAIN HYDRAULIC PUMP

Double vane pump

#### PUMP FLOW CAPACITY

309 L/min  
81.6 US Gal/min

#### OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

75 000 kg  
165 500 lbs

#### RAM FORCE PRESSURE

9 kg/ cm<sup>2</sup>  
129 PSI

#### OIL RESERVOIR CAPACITY

1 400 L  
370 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

### GENERAL SPECIFICATIONS

EUROPE (mm) USA

OVERALL LENGTH	9 950	32'8"
MAXIMUM WIDTH	5 050 (at tier station)	16'7"
OVERALL HEIGHT	3 860 (flange of the hopper)	12'7"
FEED OPENING	1 800 x 1 020	71" X 40"
BALE DIMENSIONS W x H	1 100 x 750	43" <sup>1</sup> / <sub>3</sub> X 29" <sup>1</sup> / <sub>2</sub>
BALER WEIGHT WITHOUT FLUFFER	21 000 KG (without oil)	46 297 lb
BALER WEIGHT WITH FLUFFER	25 500 KG (without oil)	56 217 lb
NUMBERS OF WIRES	4	4

## MODEL

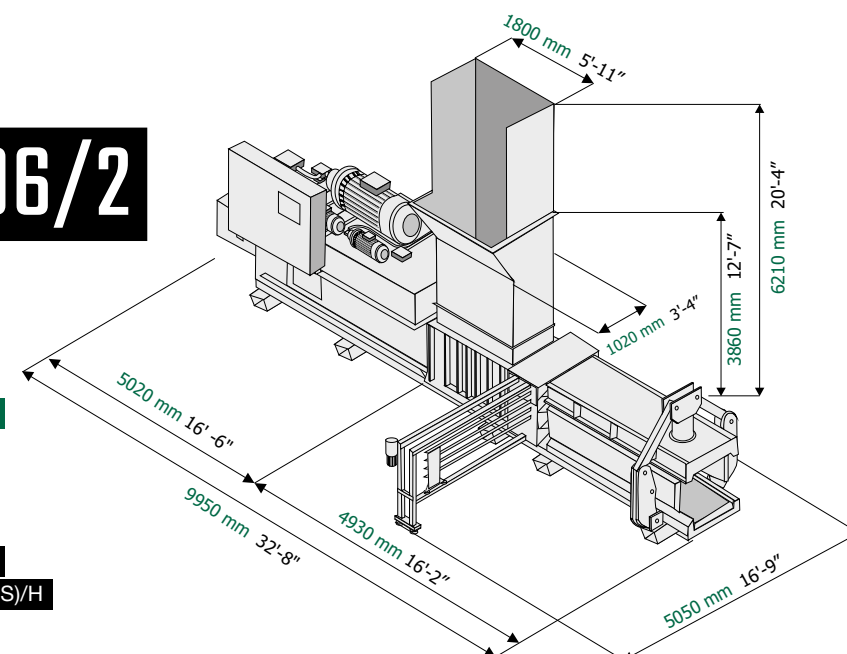
# MAC 106/2

#### EUROPE

PET 6 TON/H  
OCC 12 TON/H  
MIX PAPER 20 TON/H  
RDF 24 TON/H

#### USA

PET 6.6 TON (US)/H  
OCC 13.2 TON (US)/H  
MIX PAPER 22 TON (US)/H  
RDF 26.4 TON (US)/H



MODEL  
**MAC 107/2**





# 100 HP

MOTOR POWER

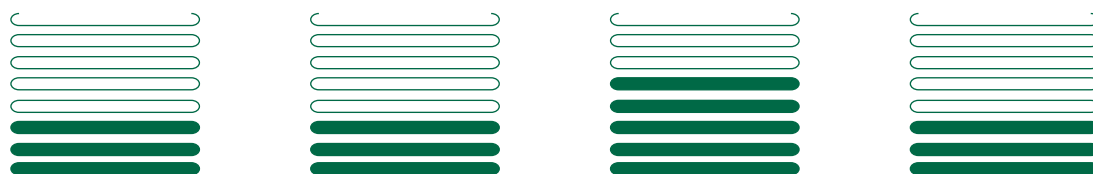
## CUTTING AND THRUST POWER

# 95 TON / 209 450 LB

### NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPE	1.6 m <sup>3</sup>	478 m <sup>3</sup> /h	5	12 sec
USA	56.5 ft <sup>3</sup>	16 880 ft <sup>3</sup> /h	5	12 sec



LOADING VOLUME VOLUMETRIC PRODUCTION CYCLES PER MINUTE CYCLE TIME

### GENERAL SPECIFICATIONS

EUROPE (mm) USA

OVERALL LENGTH	9 950	32'8"
MAXIMUM WIDTH	5 050 (at tier station)	16'7"
OVERALL HEIGHT	3 860 (flange of the hopper)	12'7"
FEED OPENING	1 800 x 1 020	71" x 40"
BALE DIMENSIONS W x H	1 100 x 750	43 <sup>1</sup> / <sub>3</sub> x 29 <sup>1</sup> / <sub>2</sub>
BALER WEIGHT WITHOUT FLUFFER	22 000 Kg (without oil)	48 501 lb
BALER WEIGHT WITH FLUFFER	26 500 Kg (without oil)	58 422 lb
NUMBERS OF WIRES	4	4

## MODEL

# MAC 107/2

### EUROPE

PET 7 TON/H  
OCC 13.5 TON/H  
MIX PAPER 22 TON/H  
RDF 26.5 TON/H

### USA

PET 7.7 TON (US)/H  
OCC 14.8 TON (US)/H  
MIX PAPER 24.2 TON (US)/H  
RDF 29.1 TON (US)/H

### TECHNICAL DATA

#### MAIN MOTOR POWER

75 kw

#### MAIN HYDRAULIC PUMP

Double vane pump

#### PUMP FLOW CAPACITY

434 L/min  
114 US Gal/min

#### OPERATING CONTROL

Siemens S7 1500 programmable controller

#### RAM FORCE

95 000 kg  
209 450 lbs

#### RAM FORCE PRESSURE

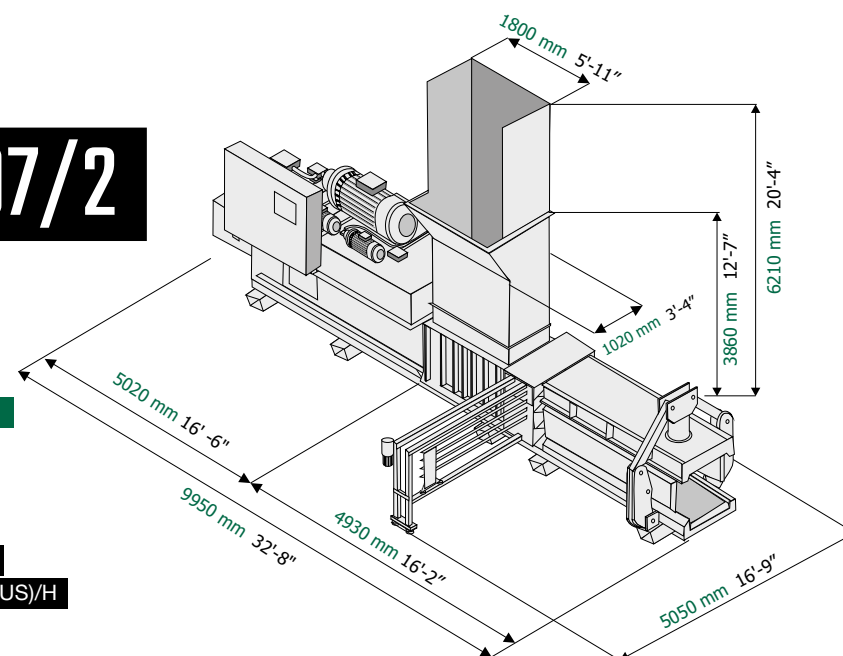
11.5 kg/cm<sup>2</sup>  
163.5 PSI

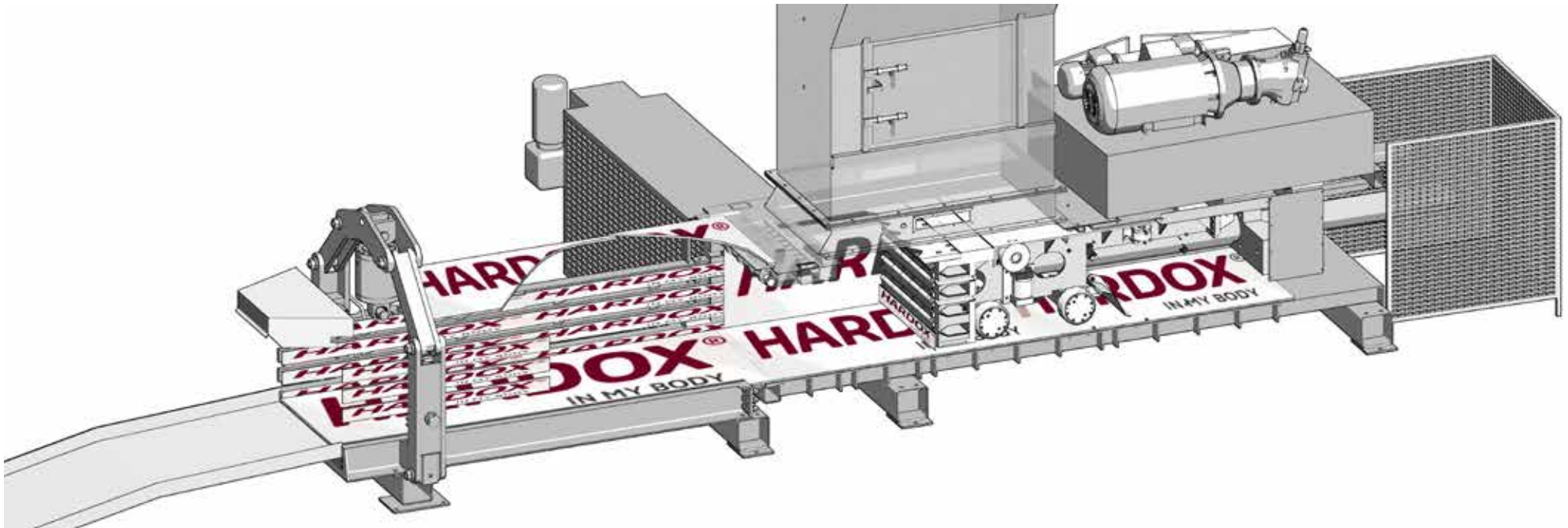
#### OIL RESERVOIR CAPACITY

1 400 L  
370 US Gal

#### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger





WEAR RESISTANT

CORE VALUE



# HARDOX STEEL LINERS



LONG SERVICE LIFE



HEAVY  
CONSTRUCTION



EASY  
MAINTENANCE



HARDOX STEEL LINERS REPLACEMENT

THIS WEAR RESISTANT SYSTEM PROTECTS THE BALER FROM ABRASION AND CORROSION.

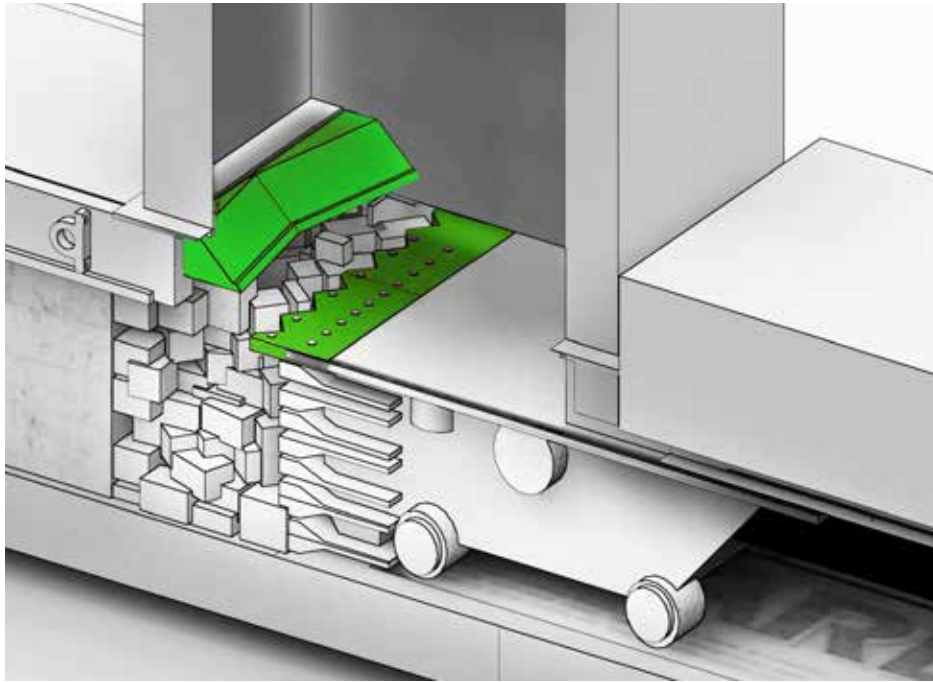
Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

1. RESISTANCE TO WEAR AND CHEMICAL AGENTS
2. RAPID REPLACEMENT  
(PATENTED ATTACHMENT SYSTEM)
3. MINIMIZE BALER DOWNTIME

400%

LONGER LASTING  
THAN STANDARD STEEL



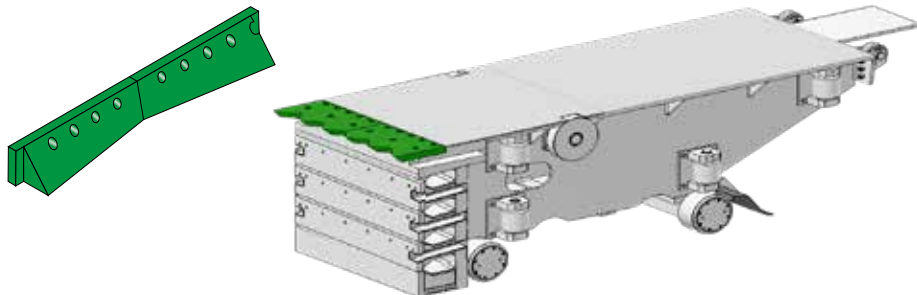


## CUTTING SYSTEM

CORE VALUE

### HIGH EFFICIENCY BLADE

THE BLADES HAVE BEEN DESIGNED BY MACPRESSED TO OPTIMIZE THE CUTTING OF EXCESS MATERIAL IN THE HOPPER; THE BLADES ARE TEMPERED TO GUARANTEE A GREATER RESISTANCE TO WEAR.



### COUNTER-PRESSURE SYSTEM

HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.



QUICK  
INTERCHANGEABILITY



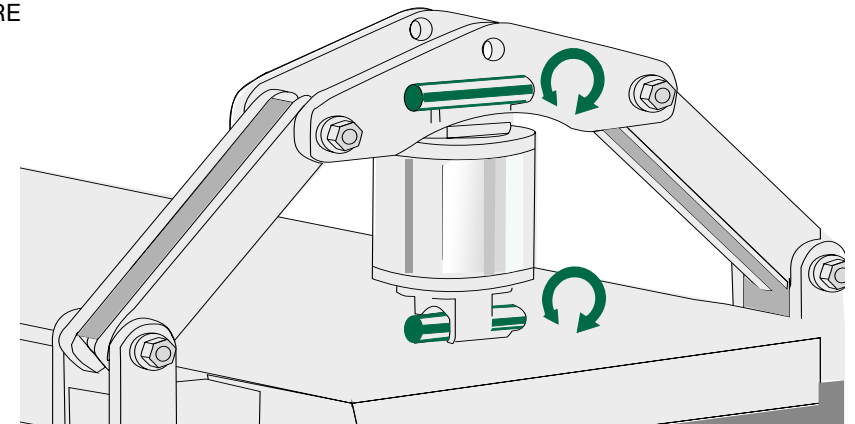
LOW ELECTRICAL  
CONSUMPTION



LONG SERVICE LIFE

### TILTING COUNTER-PRESSURE CYLINDER

THE SYSTEM IS DESIGNED TO AVOID MECHANICAL STRESS TO THE CYLINDER OF COUNTERPRESSURE





## HYDRAULICS SYSTEM

CORE VALUE



HARSH  
ENVIRONMENTS



LOW ENERGY  
CONSUMPTION



EASY  
MAINTENANCE

## SMART SYSTEM ADAPTABLE TO MATERIAL

PUMPS POSITIONED OUTSIDE OF OIL TANK FOR A BETTER PERFORMANCE AND EASIER MAINTENANCE.

# 30%

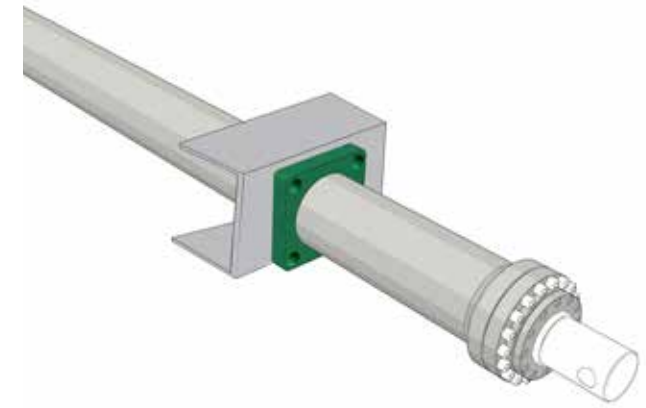
## ENERGY SAVINGS

COMPARED TO  
TRADITIONAL  
ELECTRIC MOTORS

THE INSTALLATION OF VANE PUMP HIGH-LOW PRESSURE PROVIDES A BETTER PERFORMANCE WITH REDUCED ELECTRICAL CONSUMPTION. HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL ELECTRIC MOTORS.



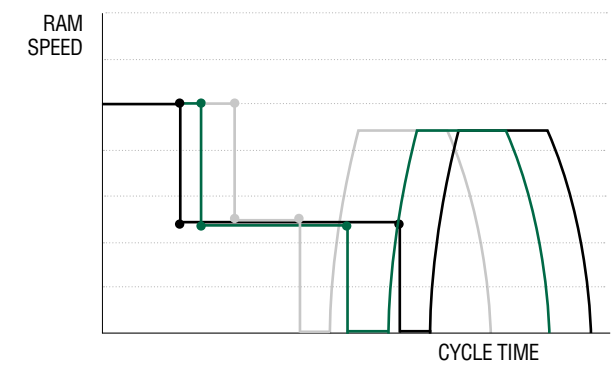
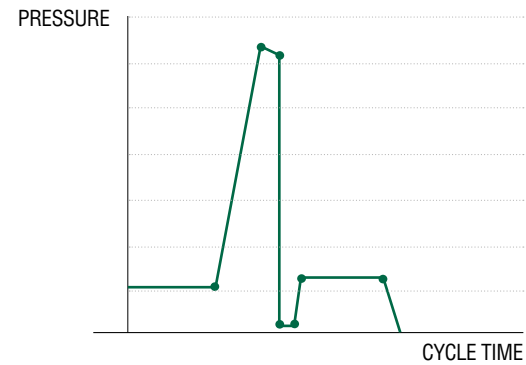
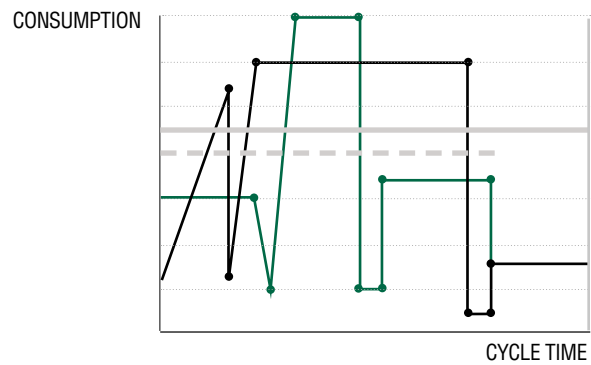




## CONSUMPTION - CYCLE TIME DIAGRAM

## PRESSURE - CYCLE TIME DIAGRAM

## RAM SPEED - CYCLE TIME DIAGRAM





MAIN ELECTRIC PANEL CONTROL



SCART PLUGS AND PROTECTED CABLES ARE INSTALLED.

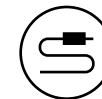
## ELECTRICAL COMPONENTS

CORE VALUE

SIEMENS

## CONNECTION OF ELECTRICAL COMPONENTS

Electrical connections are made using SCART leads. Electrical cables are protected by rodent-proof and fire-resistant sheaths.



HIGH CABLE  
RESISTANCE



OPERATOR  
SAFETY



EASY  
MAINTENANCE



## TYING UNIT

### CORE VALUE



RELIABILITY



ROBUSTNESS



FLEXIBILITY



EASY  
MAINTENANCE

## FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

### ELECTRO-MECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

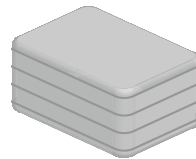
This system simplifies the cleaning process for the tying unit, providing increased safety for the operator. The maintenance and cleaning of the tying unit is done at floor level; replacement of baling wire is at floor level, no pit needed.

PATENTED

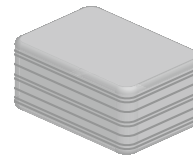


TYING UNIT

#### TYING METHOD



4 WIRES



4+2 WIRES



PLASTIC REELS



STEEL WIRE REELS



PLASTIC WIRE



TYING UNIT MAINTENANCE

## MULTI-MATERIALS BALES

### BALES INTEGRITY



## TRANSPORT EFFICIENCY

### ROAD TRANSPORT



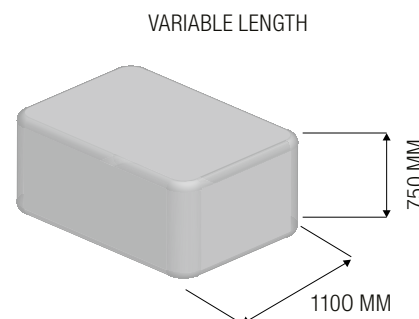
ROAD  
TRANSPORT



RAIL  
TRANSPORT



SEA  
TRANSPORT



**DIMENSIONS OF BALES ARE  
SUITABLE FOR OPTIMIZING LOADING  
OPERATIONS OF THE MOST COMMON  
LAND, SEA AND RAILROAD METHODS  
OF TRANSPORTATION.**



# MAC 108/2 THE NEW GENERATION BALER DESIGNED FOR HIGH DENSITY PLASTIC BALES



MUNICIPAL SOLID  
WASTE PROCESSING



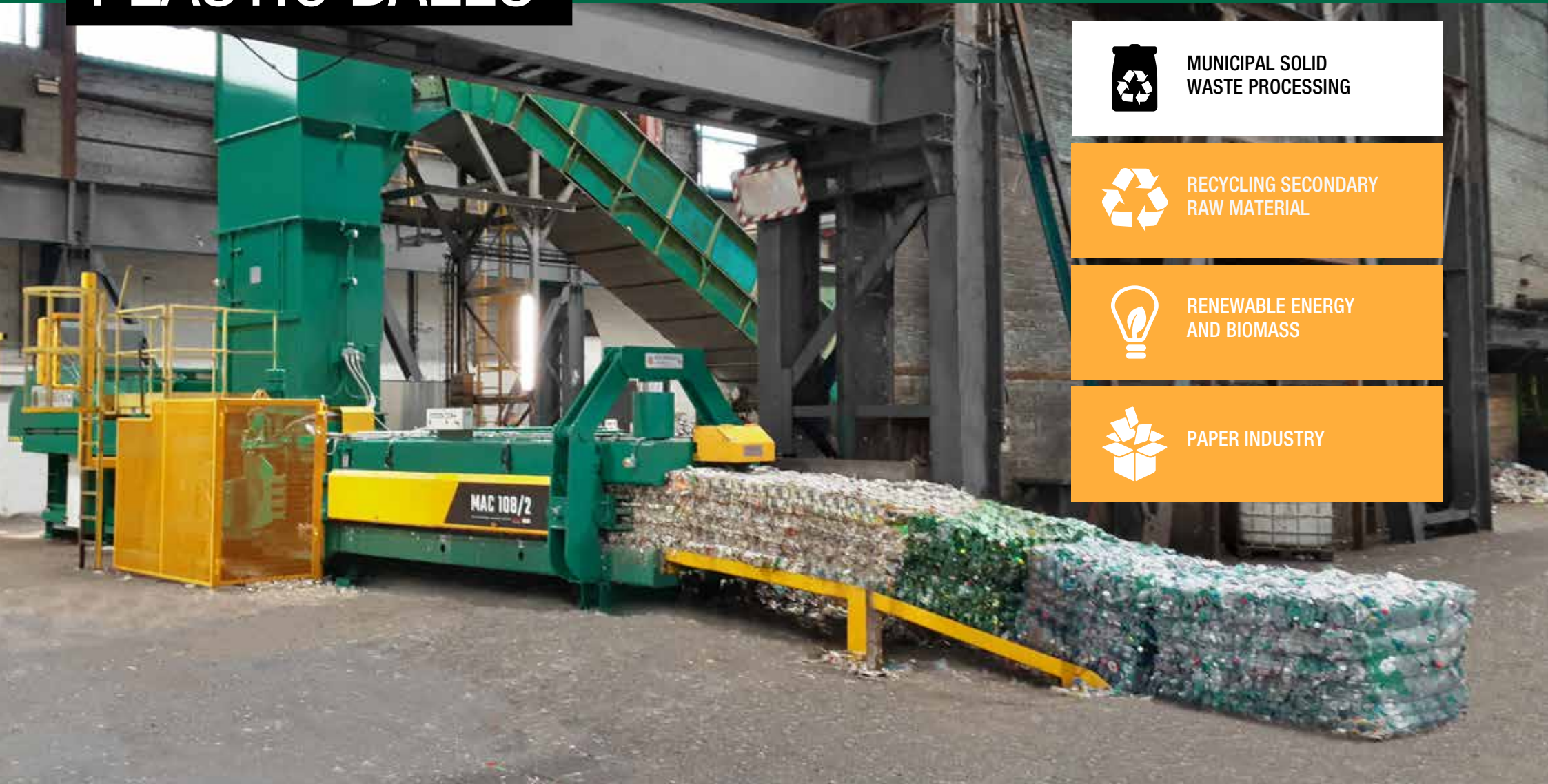
RECYCLING SECONDARY  
RAW MATERIAL



RENEWABLE ENERGY  
AND BIOMASS



PAPER INDUSTRY

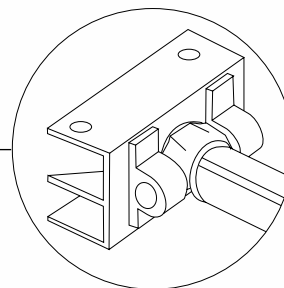


# MAC 108/2

## GENERAL DESCRIPTION

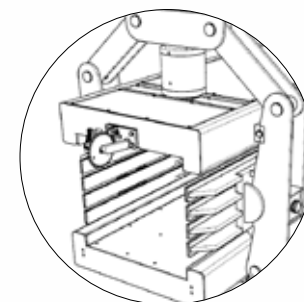
HYDRAULIC UNIT EQUIPPED WITH  
SOUNDPROOFING AND FORCED  
VENTILATION

OSCILLATING SUPPORT FOR MAIN CYLINDER



REMOTE CONTROL PANEL

NEEDLES



EXTRUSION PRESSURE CHANNEL  
CONTROLLED COMPLETELY BY  
PROPORTIONAL VALVES FOR GREATER  
BALE DENSITY  
IN WHATEVER CONDITIONS

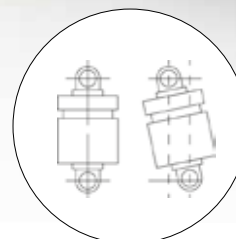
ELECTRICAL PANEL AND  
SIEMENS INDUSTRIAL PC

IMPROVED DESIGN WITH  
THICKER SIDES WALLS

TYING UNIT

LARGER DOORS FOR BETTER CLEANING AND  
MAINTENANCE

BOLTED HARDOX  
PLATES



TILTING COUNTER-PRESSURE CYLINDER



# MATERIALS PROCESSED AND PRODUCTION

## MAC 108/2

EUROPE

PET 7.5 TON/H

OCC 14.5 TON/H

MIX PAPER 21.5 TON/H

RDF 25.2 TON/H

USA

PET 8.2 TON (US)/H

OCC 15.9 TON (US)/H

MIXED PAPER 23.7 TON (US)/H

RDF 28.1 TON (US)/H



PET

INFEED DENSITY



EUROPE

25/30 kg/m³

USA

1.56/1.87 lb/ft³



OCC



70/80 kg/m³

4.37/4.99 lb/ft³



MIX PAPER

INFEED DENSITY



EUROPE

100/120 kg/m³

USA

6.24/7.49 lb/ft³



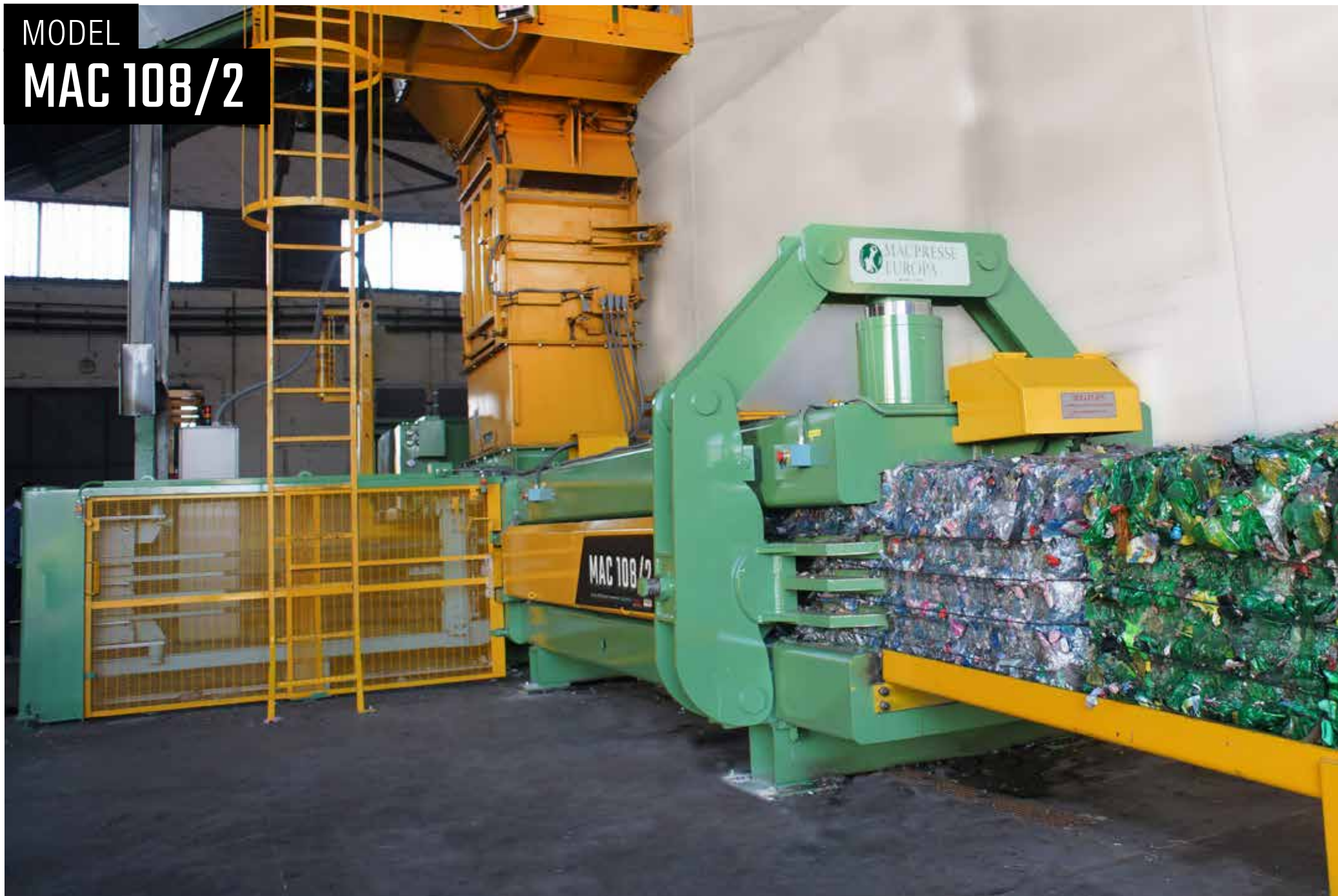
RDF



150/200 kg/m³

9.36/12.48 lb/ft³

MODEL  
**MAC 108/2**





# 2X75 HP

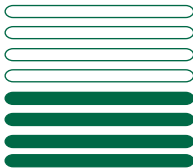
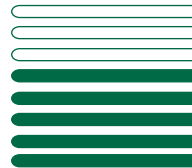
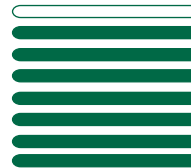

MOTORS POWER

# CUTTING AND THRUST POWER

# 170 TON / 374 800 lb

## NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPE	2,3 m <sup>3</sup>	552 m <sup>3</sup> /h	4	15 sec
USA	81,2 ft <sup>3</sup>	19 493 ft <sup>3</sup> /h	4	15 sec
				
	LOADING VOLUME	VOLUMETRIC PRODUCTION	CYCLES PER MINUTE	CYCLE TIME

## TECHNICAL DATA

### MAIN MOTORS POWER

2 x 55 kw

### MAIN HYDRAULIC PUMPS

Two "REXROTH" variable flow pump with full regenerative circuit

### PUMP FLOW CAPACITY

364 + 364 L/min  
96 + 96 US Gal/min

### OPERATING CONTROL

Siemens S7 1500 programmable controller

### RAM FORCE

170 000 kg  
374 800 lbs

### RAM FORCE PRESSURE

20.6 kg/cm<sup>2</sup>  
290 Psi

### OIL RESERVOIR CAPACITY

3 100 L  
820 US Gal

### COOLING SYSTEM

Thermostatically controlled air to oil heat exchanger

## GENERAL SPECIFICATIONS

	EUROPE (mm)	USA
OVERALL LENGTH	13 986	45'11"
MAXIMUM WIDTH	5 875 (at tier station)	19'3"
OVERALL HEIGHT	3 972 (flange of the hopper)	13"
FEED OPENING	2 000 x 1 020	79" x 40"
BALE DIMENSIONS WxH	1 100 x 750	43" 1/3 x 29" 1/2
BALER WEIGHT WITHOUT FLUFFER	40 000 Kg (without oil)	88 184 lbs
BALER WEIGHT WITH FLUFFER	45 000 Kg (without oil)	99 208 lbs
NUMBERS OF WIRES	4	4

## MODEL

# MAC 108/2

### EUROPE

PET 7.5 TON/H

OCC 14.5 TON/H

MIX PAPER 21.5 TON/H

RDF 25.2 TON/H

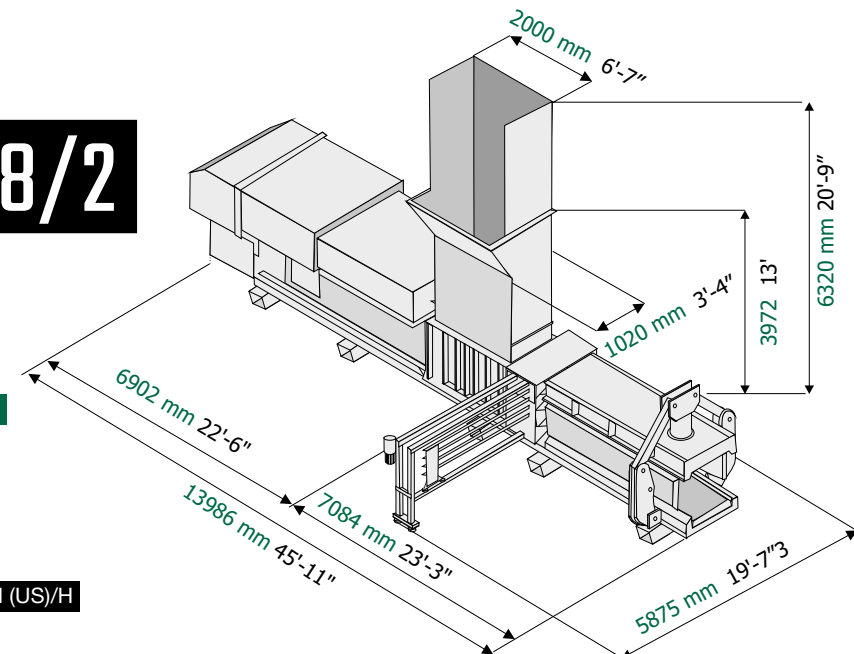
### USA

PET 8.2 TON (US)/H

OCC 15.9 TON (US)/H

MIXED PAPER 23.7 TON (US)/H

RDF 28.1 TON (US)/H





WEAR RESISTANT

CORE VALUE



## HARDOX STEEL LINERS



LONG LASTING



ROBUSTNESS



EASY  
MAINTENANCE

THIS WEAR RESISTANT SYSTEM PROTECTS THE BALER FROM ABRASION AND CORROSION.

Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

1. WEAR RESISTANT SYSTEM REDESIGNED TO REDUCE OPERATING COSTS
2. RESISTANCE TO WEAR AND CHEMICAL AGENTS
3. RAPID REPLACEMENT(PATENTED ATTACHMENT SYSTEM)
4. MINIMIZE BALER DOWNTIME

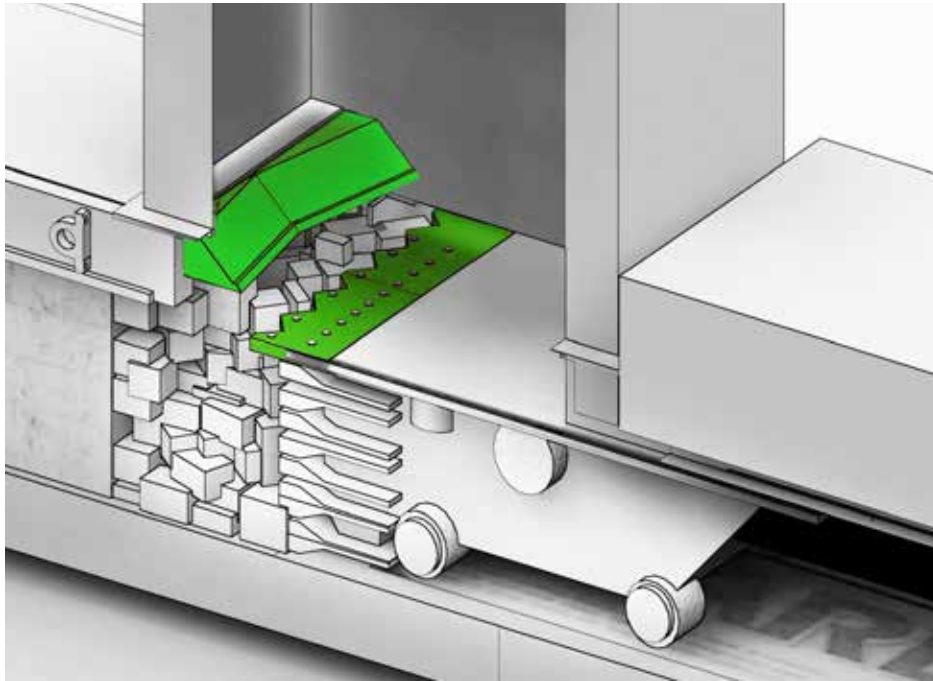
# 400%

LONGER LASTING  
than normal steel



HARDOX STEEL LINERS REPLACEMENT



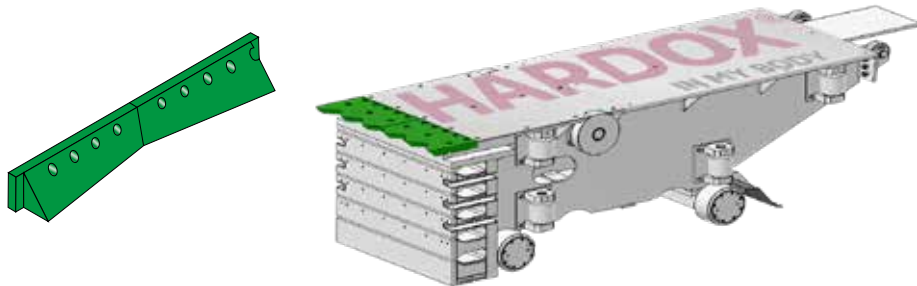


## CUTTING SYSTEM

CORE VALUE

### HIGH EFFICIENCY BLADE

THE BLADES HAVE BEEN DESIGNED BY MACPRESSE TO OPTIMIZE THE CUTTING OF EXCESS MATERIAL IN THE HOPPER; THE BLADES ARE TEMPERED TO GUARANTEE A GREATER RESISTANCE TO WEAR.



### COUNTER-PRESSURE SYSTEM

HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.



QUICK  
INTERCHANGEABILITY



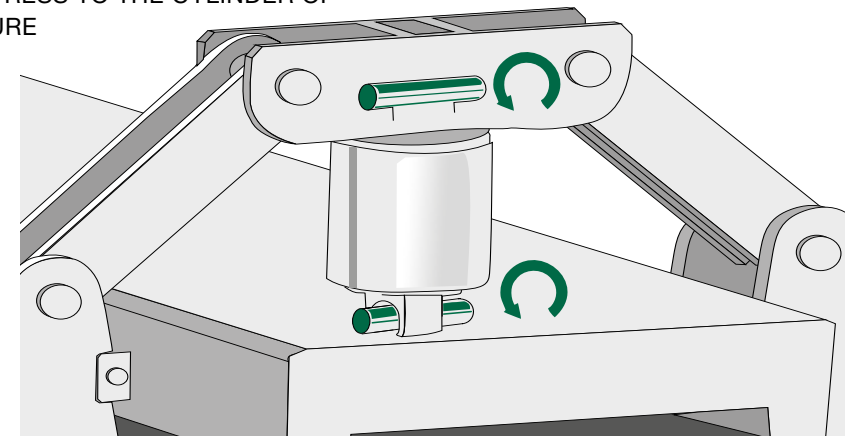
LOW ELECTRICAL  
CONSUMPTION

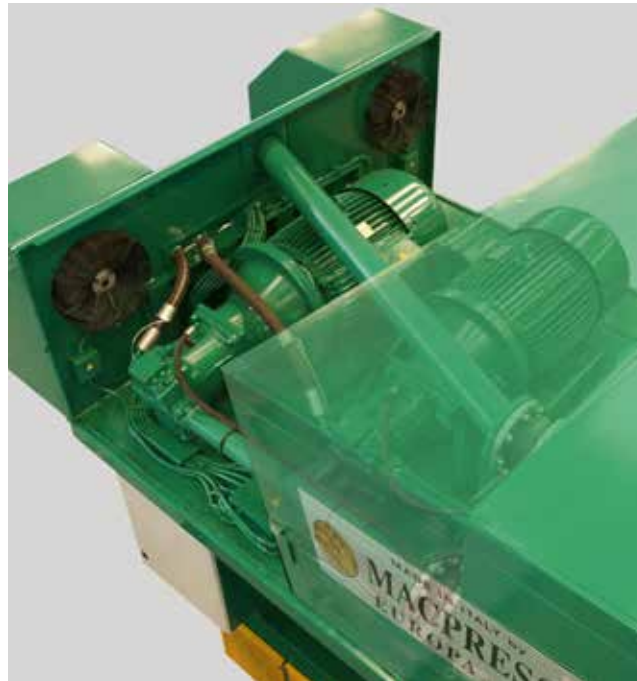


LONG SERVICE LIFE

### TILTING COUNTER-PRESSURE CYLINDER

THE SYSTEM IS DESIGNED TO AVOID MECHANICAL STRESS TO THE CYLINDER OF COUNTERPRESSURE





## HYDRAULICS

### CORE VALUE



**Rexroth**  
Bosch Group



HARSH  
ENVIRONMENTS



LOW ENERGY  
CONSUMPTION



EASY  
MAINTENANCE

## SMART SYSTEM ADAPTABLE TO MATERIAL

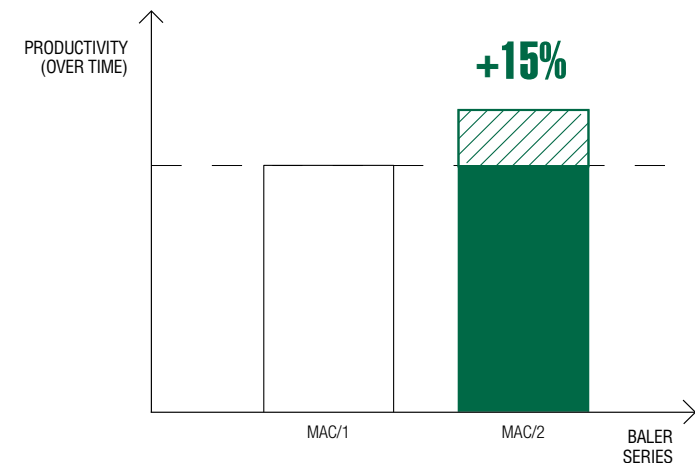
Pumps positioned outside of oil tank for a better performance and easier maintenance. The installation of variable flow pumps provides a better performance with reduced electrical consumption.

HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL MOTORS.

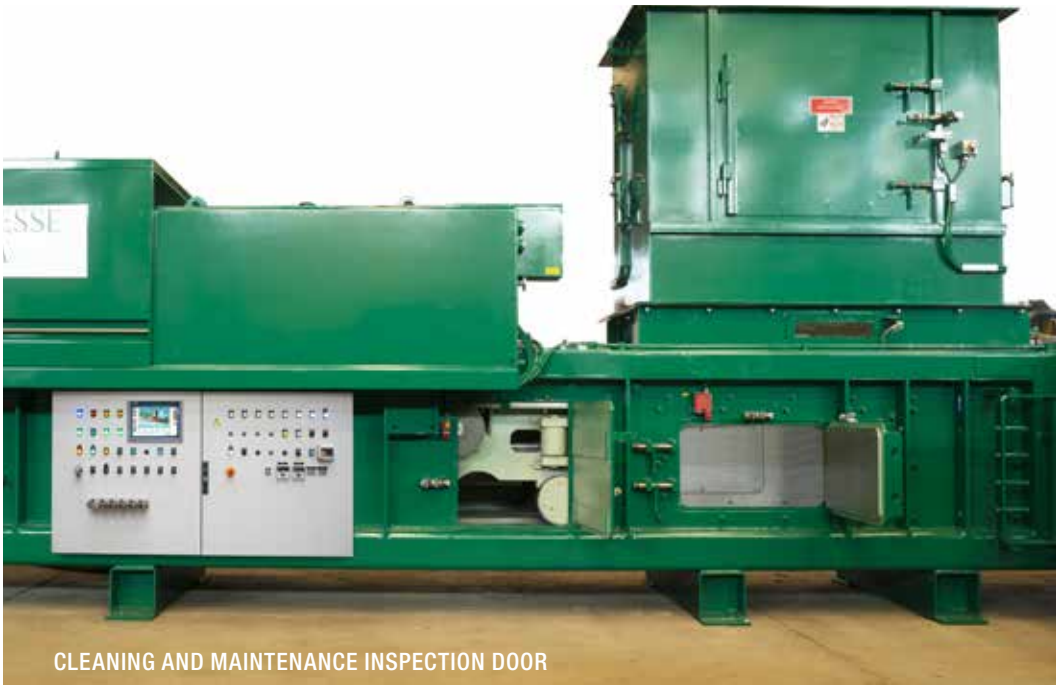
# 30%

### ENERGY SAVINGS

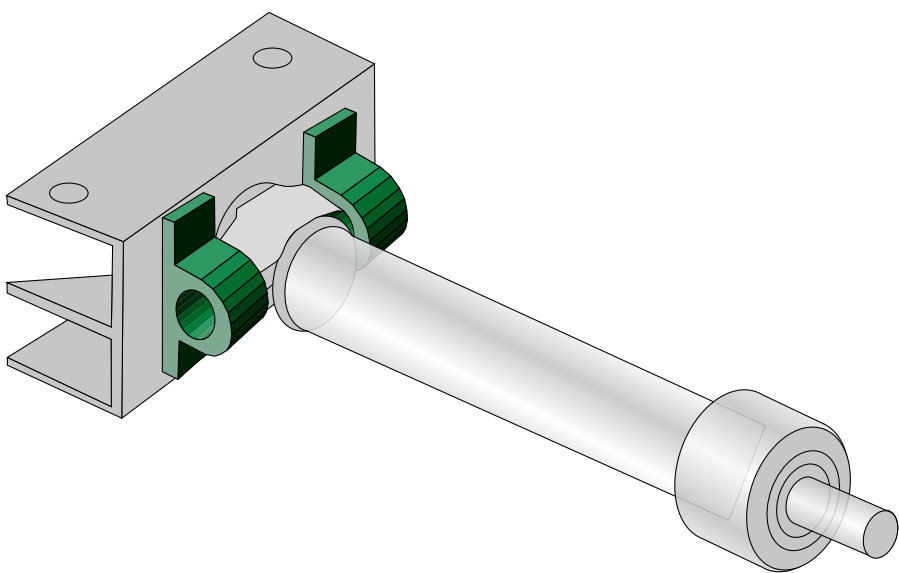
compared with traditional  
motors



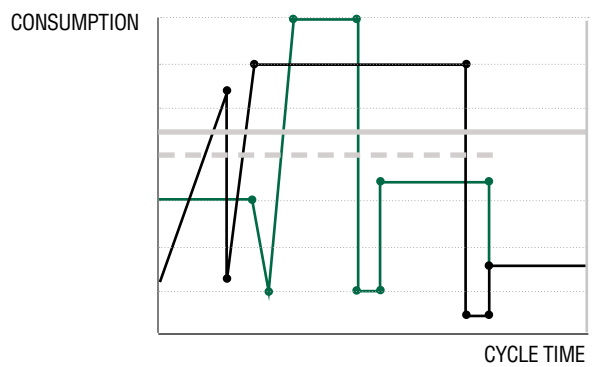




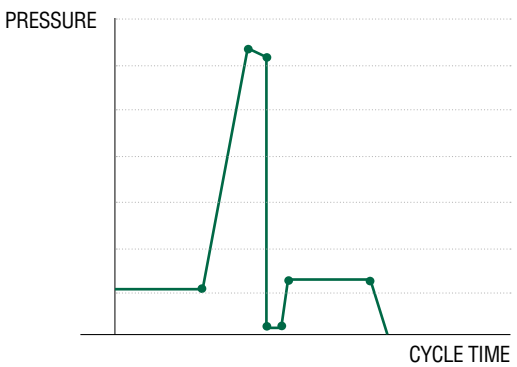
# MAIN CYLINDER OSCILLATING



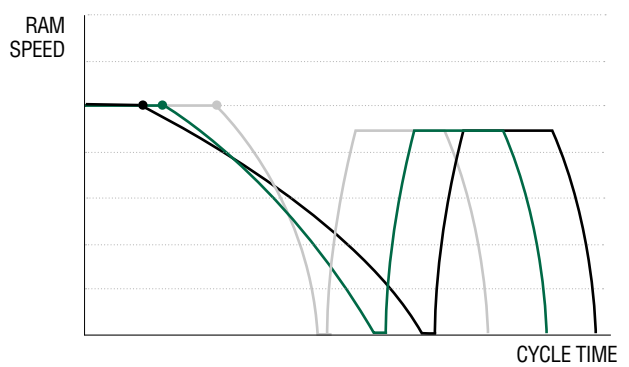
## CONSUMPTION - CYCLE TIME DIAGRAM



## PRESSURE - CYCLE TIME DIAGRAM



## RAM SPEED - CYCLE TIME DIAGRAM



Consumption Trend Press With Pre-Compactor  
 Consumption Trend Press Without Pre-Compactor  
 Consumption Medium With Pre-Compactor  
 Consumption Medium Without Pre-Compactor

Light Material  
 Medium Material  
 Heavy Material



MAIN ELECTRIC PANEL CONTROL



SHEATHS FOR ELECTRIC CABLES PROTECTION



SCART PLUGS

## ELECTRICAL COMPONENTS

CORE VALUE

### CONNECTION OF ELECTRICAL COMPONENTS

Connections using SCART leads and electrical cables protected by rodent-proof and fire-resistant sheaths

SIEMENS



HIGH CABLE  
RESISTANCE



OPERATOR  
SAFETY



EASY  
MAINTENANCE

### NEWLY REDESIGNED AND DEVELOPED MACHINE MANAGEMENT SYSTEM



# TYING SYSTEM

## CORE VALUE



ROBUSTNESS



RELIABILITY



FLEXIBILITY

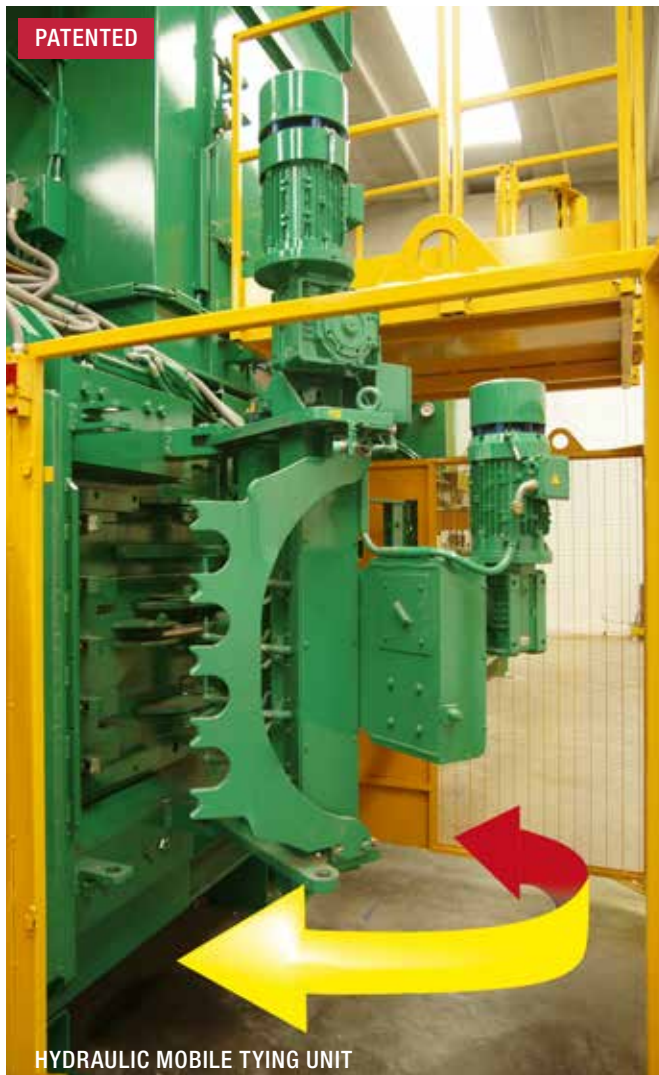


EASY  
MAINTENANCE

## FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

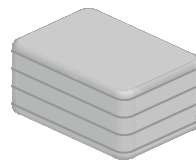
ELECTROMECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

This system simplifies the cleaning process for the tying machine, guaranteeing greater safety for the operator. The maintenance and cleaning of the tying machine is carried out at floor level, operations on the steel wire are not required beneath the machine.

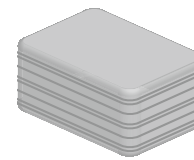


HYDRAULIC MOBILE TYING UNIT

### TYING METHOD



4 WIRES



4+2 WIRES

# +50%

TYING SPEED



STEEL WIRE REELS



TYING MACHINE MAINTENANCE



PLASTIC WIRE



PLASTIC WIRE REELS

## MULTI-MATERIALS BALES

**BALES INTEGRITY 110 X 75 CM**

## TRANSPORT EFFICIENCY

**ROAD TRANSPORT**



ROAD  
TRANSPORT



RAIL  
TRANSPORT



SEA  
TRANSPORT



CARTONE



HDPE



ALLUMINIO

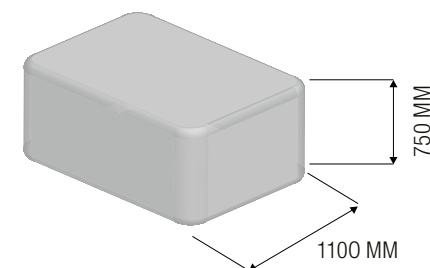


PET



SRF STOCCAGGIO TEMPORANEO

VARIABLE LENGTH



**DIMENSIONS OF BALES ARE SUITABLE FOR OPTIMIZING  
LOADING OPERATIONS OF THE MOST COMMON LAND, SEA  
AND RAILROAD METHODS OF TRANSPORTATION.**



# MAC 110/2 - MAC 111/2 THE NEW GENERATION OF BALERS FOR PROCESSING SECONDARY MATERIALS



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING SECONDARY  
RAW MATERIAL



RENEWABLE ENERGY  
AND BIOMASS



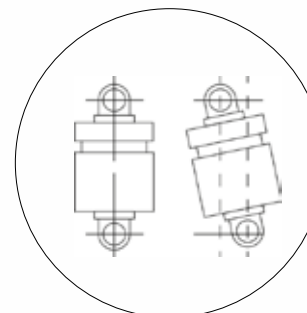
PAPER INDUSTRY

# MAC 110/2 - MAC 111/2

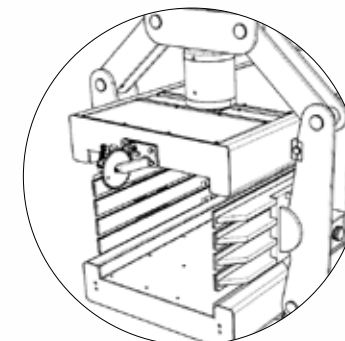
## GENERAL DESCRIPTION

HYDRAULIC UNIT EQUIPPED WITH  
SOUNDPROOFING AND FORCED VENTILATION

LARGER DOORS FOR BETTER  
CLEANING AND MAINTENANCE



TILTING COUNTER-PRESSURE CYLINDER



EXTRUSION PRESSURE CHANNEL  
CONTROLLED COMPLETELY BY  
PROPORTIONAL VALVES FOR GREATER  
BALE DENSITY  
IN WHATEVER CONDITION

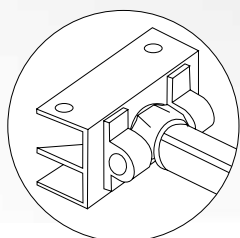
BOLTED HARDOX  
PLATES

TYING UNIT

REMOTE CONTROL PANEL

ELECTRICAL PANEL AND  
SIEMENS INDUSTRIAL PC

CENTRALLY OSCILLATING SUPPORT  
FOR MAIN CYLINDER



NEEDLES

IMPROVED DESIGN WITH THICKER SIDES

BALE EXTRUSION  
CHANNEL



# MATERIALS PROCESSED AND PRODUCTION

## MAC 110/2

EUROPE

PET 12 TON/H

OCC 22 TON/H

MIXED PAPER 35 TON/H

RDF 40 TON/H

USA

PET 13.3 TON (US)/H

OCC 24 TON (US)/H

MIXED PAPER 38.5 TON (US)/H

RDF 44.8 TON (US)/H

## MAC 111/2

EUROPE

PET 13 TON/H

OCC 23.5 TON/H

MIXED PAPER 37 TON/H

RDF 42 TON/H

USA

PET 14.3 TON (US)/H

OCC 26 TON (US)/H

MIXED PAPER 40.7 TON (US)/H

RDF 46.3 TON (US)/H



PET

INFEEED DENSITY



EUROPE

25/30 kg/m³

USA

1.56/1.87 lb/ft³



OCC



70/80 kg/m³

4.37/4.99 lb/ft³



MIXED PAPER

INFEEED DENSITY



EUROPE

100/120 kg/m³

USA

6.24/7.49 lb/ft³



RDF



150/200 kg/m³

9.36/12.48 lb/ft³

MODEL  
**MAC 110/2**





# 2X75 HP

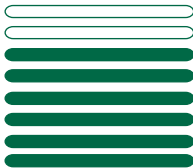
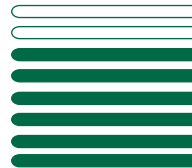
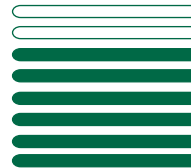
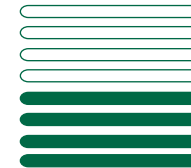
MOTORS POWER

# CUTTING AND THRUST POWER

# 170 TON / 374 800 LB

## NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPA	3.4 m <sup>3</sup>	815 m <sup>3</sup> /h	4	15 sec
USA	120 ft <sup>3</sup>	28 781 ft <sup>3</sup> /h	4	15 sec
				
	LOADING VOLUME	VOLUMETRIC PRODUCTION	CYCLES PER MINUTE	CYCLE TIME

## GENERAL SPECIFICATIONS

	EUROPE (mm)	USA
OVERALL LENGTH	14 262	46'9"
MAXIMUM WIDTH	5 900 (at tier station)	19'4"
OVERALL HEIGHT	4 320 (flange of the hopper)	14'2"
FEED OPENING	2 000 x 1 020	79" x 40"
BALE DIMENSIONS WxH	1 100 x 1 100	43" 1/3 x 43" 1/3
BALER WEIGHT WITHOUT FLUFFER	43 000 Kg (without oil)	94 800 lbs
BALER WEIGHT WITH FLUFFER	48 000 Kg (without oil)	105 820 lbs
NUMBERS OF WIRES	5	5

## MODEL

# MAC 110/2

### EUROPE

PET 12 TON/H  
OCC 22 TON/H  
MIXED PAPER 35 TON/H  
RDF 40 TON/H

### USA

PET 13.3 TON (US)/H  
OCC 24 TON (US)/H  
MIXED PAPER 38.5 TON (US)/H  
RDF 44.8 TON (US)/H

## TECHNICAL DATA

### MAIN MOTORS POWER

2 x 55 kw

### MAIN HYDRAULIC PUMPS

Two "REXROTH" variable flow pump with full regenerative circuit

### PUMP FLOW CAPACITY

364 + 364 L/min  
96 + 96 US Gal/min

### OPERATING CONTROL

Siemens S7 1500 programmable controller

### RAM FORCE

170 000 kg  
374 800 lbs

### RAM FORCE PRESSURE

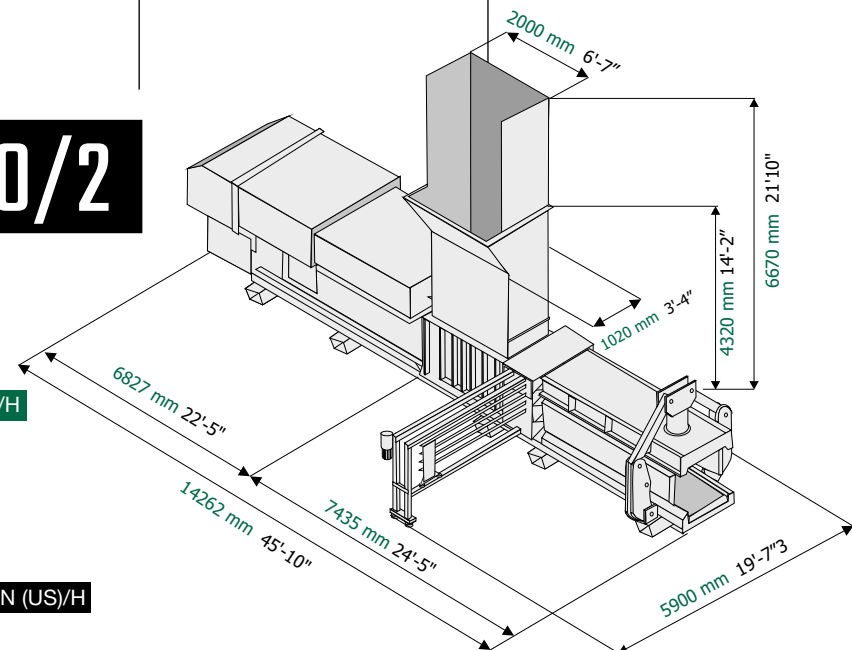
14 kg/cm<sup>2</sup>  
200 Psi

### OIL RESERVOIR CAPACITY

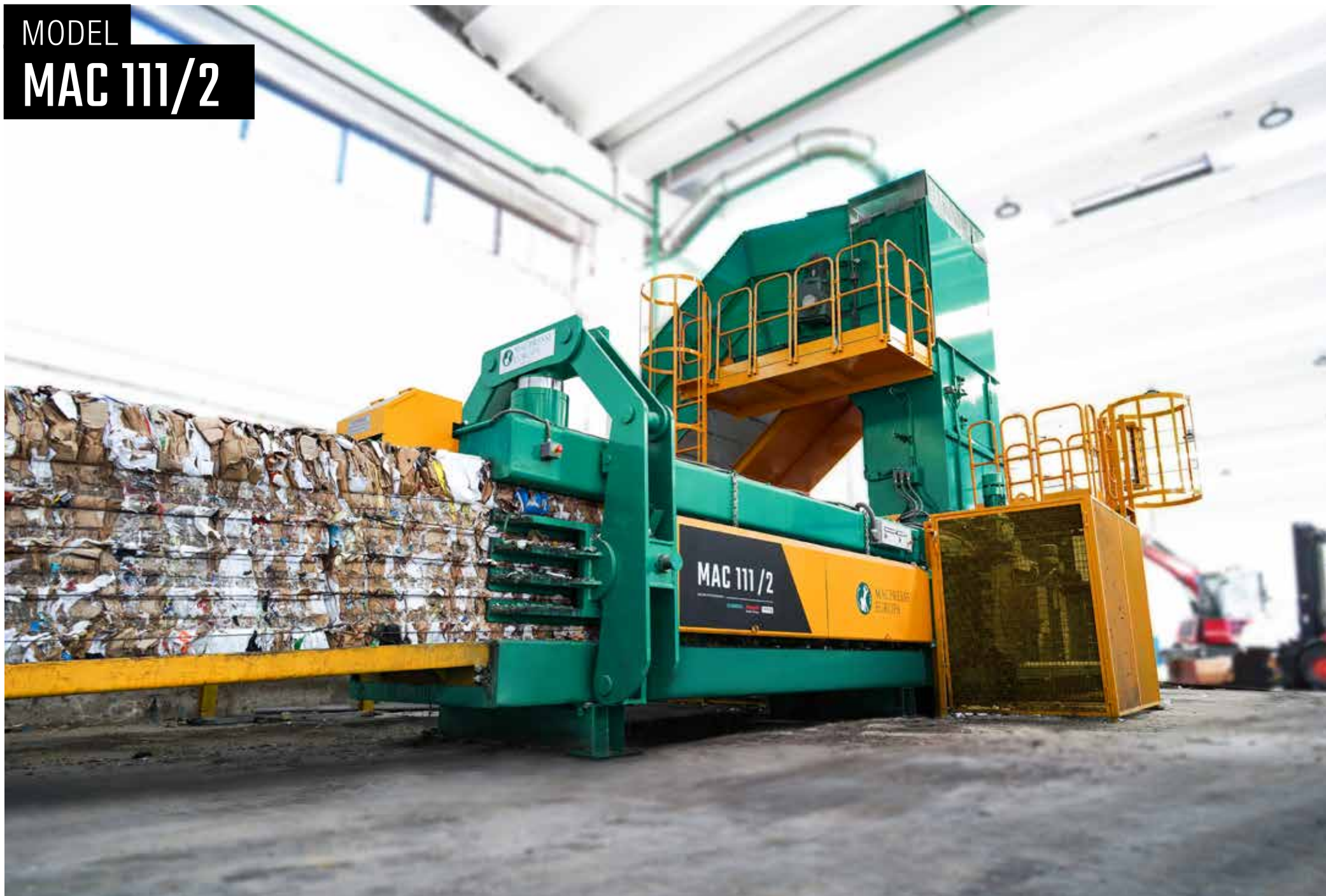
3 100 L  
820 US Gal

### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers



MODEL  
**MAC 111/2**





# 2X100 HP

MOTORS POWER

# CUTTING AND THRUST POWER

# 170 TON / 374 800 LB

## TECHNICAL DATA

### MAIN MOTORS POWER

2 x 75 kw

### MAIN HYDRAULIC PUMPS

Two "REXROTH" variable flow pump with full regenerative circuit

### PUMP FLOW CAPACITY

455 + 455 L/min  
120 + 120 US Gal/min

### OPERATING CONTROL

Siemens S7 1500 programmable controller

### RAM FORCE

170 000 kg  
374 800 lbs

### RAM FORCE PRESSURE

14 kg/cm<sup>2</sup>  
200 Psi

### OIL RESERVOIR CAPACITY

3 100 L  
820 US Gal

### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers

## NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPA 3.4 m<sup>3</sup> 918 m<sup>3</sup>/h 4,5 13 sec

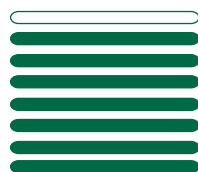
USA 120 ft<sup>3</sup> 32 419 ft<sup>3</sup>/h 4,5 13 sec



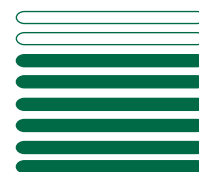
LOADING VOLUME



VOLUMETRIC PRODUCTION



CYCLES PER MINUTE



CYCLE TIME

## GENERAL SPECIFICATIONS

	EUROPE (mm)	USA
OVERALL LENGTH	14 262	46'9"
MAXIMUM WIDTH	5 900 (at tier station)	19'4"
OVERALL HEIGHT	4 320 (flange of the hopper)	14'2"
FEED OPENING	2 000 x 1 020	79" x 40"
BALE DIMENSIONS WxH	1 100 x 1 100	43" 1/3 x 43" 1/3
BALER WEIGHT WITHOUT FLUFFER	44 500 Kg (without oil)	98 106 lbs
BALER WEIGHT WITH FLUFFER	49 500 Kg (without oil)	109 130 lbs
NUMBERS OF WIRES	5	5

## MODEL

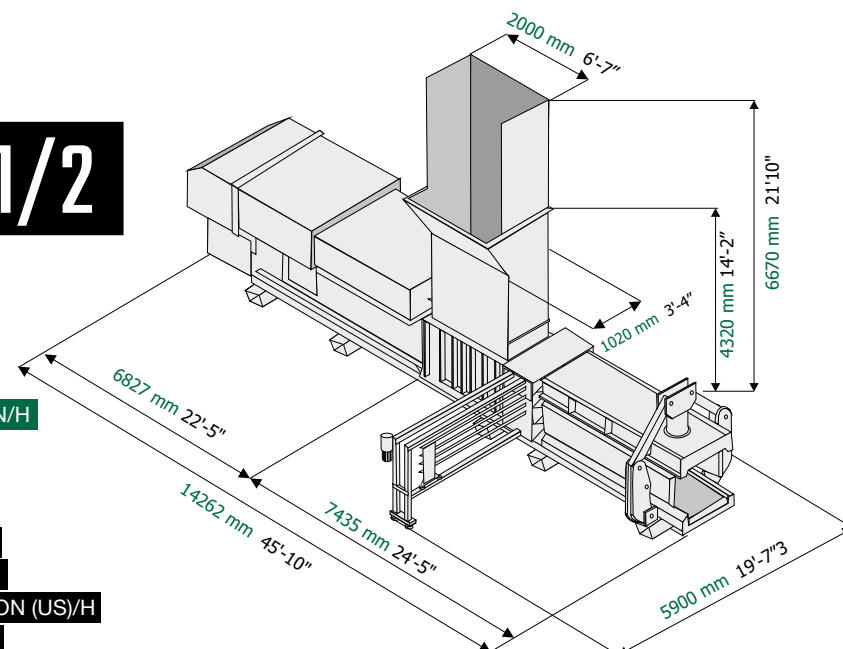
# MAC 111/2

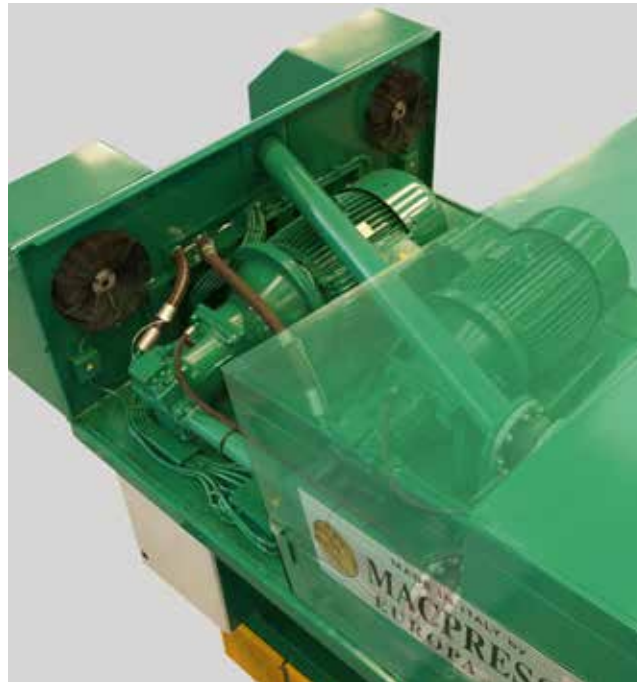
### EUROPE

PET 13 TON/H  
OCC 23.5 TON/H  
MIXED PAPER 37 TON/H  
RDF 42 TON/H

### USA

PET 14.3 TON (US)/H  
OCC 26 TON (US)/H  
MIXED PAPER 40.7 TON (US)/H  
RDF 46.3 TON (US)/H





## HYDRAULICS

### CORE VALUE



**Rexroth**  
Bosch Group



HARSH  
ENVIRONMENTS



LOW ENERGY  
CONSUMPTION



EASY  
MAINTENANCE

## SMART SYSTEM ADAPTABLE TO MATERIAL

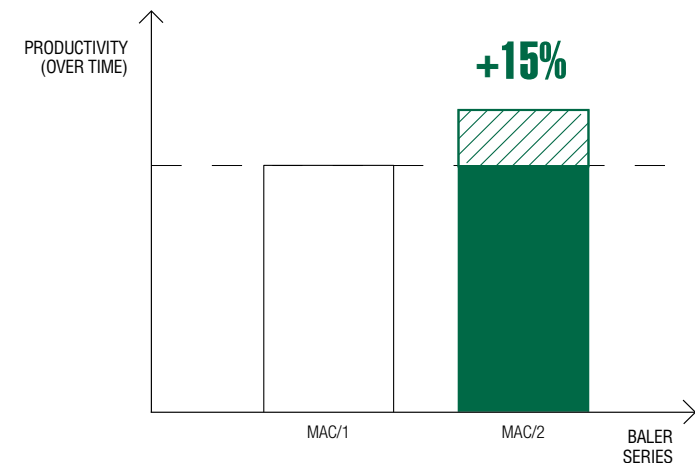
Pumps positioned outside of oil tank for a better performance and easier maintenance. The installation of variable flow pumps provides a better performance with reduced electrical consumption.

HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL MOTORS.

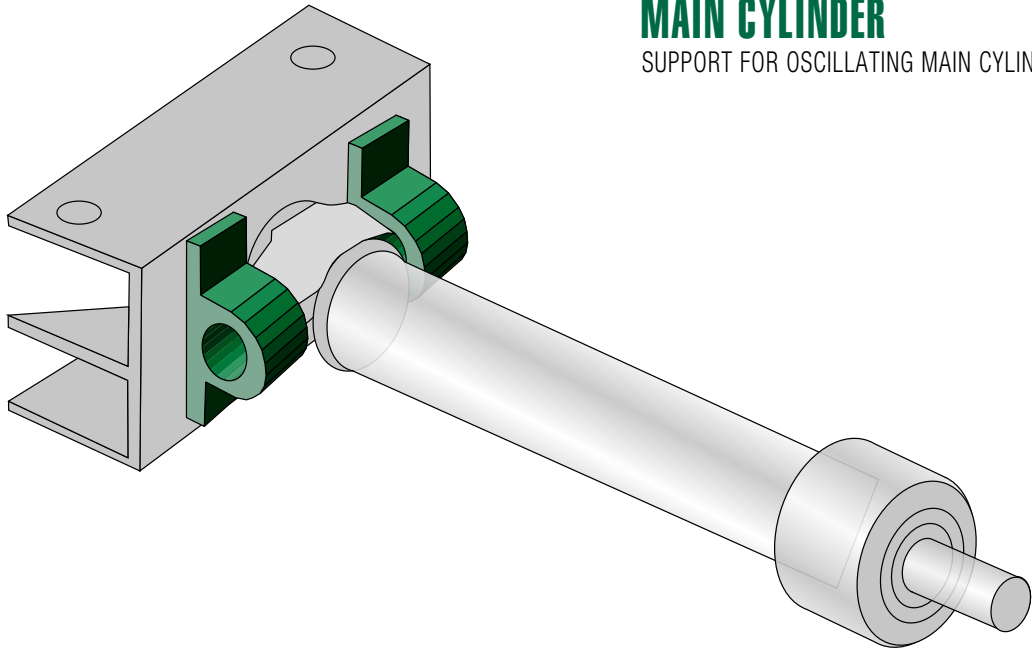
# 30%

### ENERGY SAVINGS

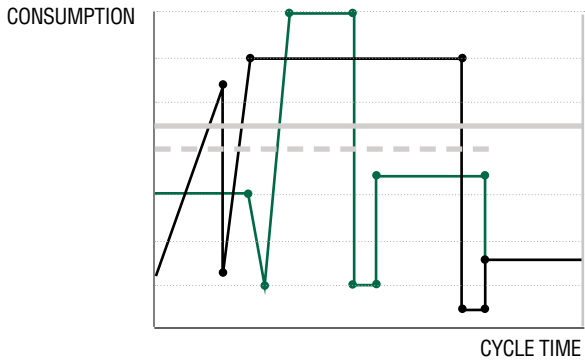
compared with traditional  
motors





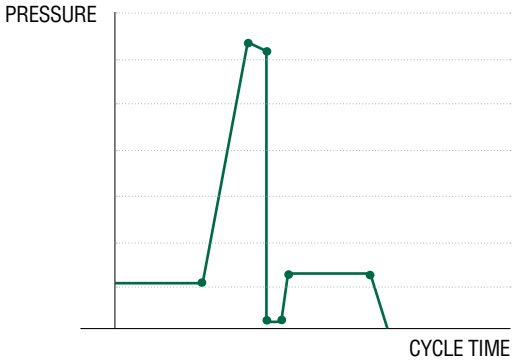


### CONSUMPTION - CYCLE TIME DIAGRAM

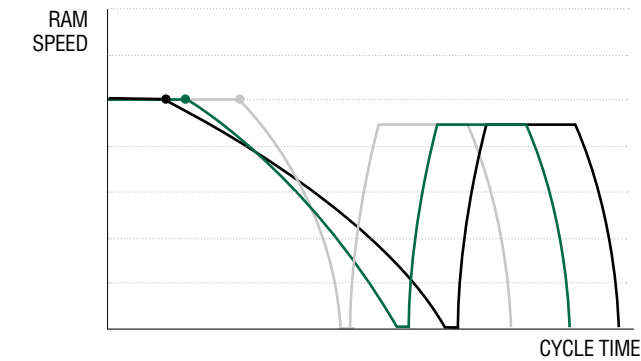


— CONSUMPTION TREND PRESS WITH PRE-COMPACTOR — CONSUMPTION TREND PRESS WITHOUT PRE-COMPACTOR — CONSUMPTION MEDIUM WITH PRE-COMPACTOR — CONSUMPTION MEDIUM WITHOUT PRE-COMPACTOR

### PRESSURE - CYCLE TIME DIAGRAM



### RAM SPEED - CYCLE TIME DIAGRAM



— LIGHT MATERIAL — MEDIUM MATERIAL — HEAVY MATERIAL



MAIN ELECTRIC PANEL CONTROL



SHEATHS FOR ELECTRIC CABLES PROTECTION



SCART PLUGS

## ELECTRICAL COMPONENTS

CORE VALUE

### CONNECTION OF ELECTRICAL COMPONENTS

Connections using SCART leads and electrical cables protected by rodent-proof and fire-resistant sheaths

SIEMENS



HIGH CABLE  
RESISTANCE



OPERATOR  
SAFETY



EASY  
MAINTENANCE

### NEWLY REDESIGNED AND DEVELOPED MACHINE MANAGEMENT SYSTEM



# TYING SYSTEM

## CORE VALUE

### FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

ELECTROMECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

This system simplifies the cleaning process for the tying machine, guaranteeing greater safety for the operator. The maintenance and cleaning of the tying machine is carried out at floor level, operations on the steel wire are not required beneath the machine.



ROBUSTNESS



RELIABILITY



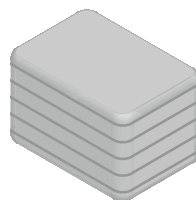
FLEXIBILITY



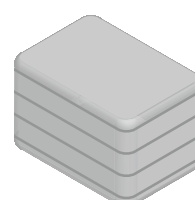
EASY  
MAINTENANCE

PATENTED

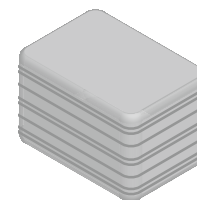
#### TYING METHOD



5 WIRES



4 WIRES



5+3 WIRES

# +50%

TYING SPEED



TYING UNIT



STEEL WIRE REELS



TYING MACHINE MAINTENANCE



PLASTIC WIRE



PLASTIC WIRE REELS



# MULTIMATERIAL BALES

## BALES INTEGRITY 110 X 110 CM







## UNSORTED MUNICIPAL SOLID WASTE OR INDUSTRIAL WASTE CONTAINS A HIGH PERCENTAGE OF RECYCLABLE MATERIALS.

The MACPRESSE sorting plants allow recyclable materials to be separated in an economical and efficient manner. The dry fraction of the remaining waste may be transformed into RDF (refuse derived fuel) with a high calorific value and sent to waste-to-energy plants or cement production plants, radically minimizing waste that cannot be reclaimed.



## TRANSPORT EFFICIENCY



ROAD  
TRANSPORT



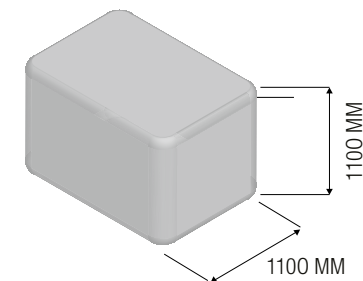
RAIL  
TRANSPORT



MARTIME  
TRANSPORT



VARIABLE LENGHT



**DIMENSIONS OF BALES ARE SUITABLE FOR OPTIMIZING  
LOADING OPERATIONS OF THE MOST COMMON LAND, SEA  
AND RAILROAD METHODS OF TRANSPORTATION.**



# SERIES MAC L/2 THE NEW GENERATION SPECIFICALLY DESIGNED FOR WASTE



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING SECONDARY  
RAW MATERIAL



RENEWABLE ENERGY  
AND BIOMASS



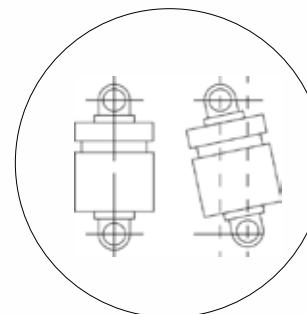
PAPER INDUSTRY

# MAC 110L/2 - MAC 111L/2

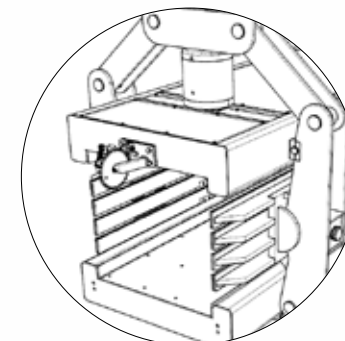
## GENERAL DESCRIPTION

HYDRAULIC UNIT EQUIPPED WITH  
SOUNDPROOFING AND FORCED VENTILATION

LARGER DOORS FOR BETTER  
CLEANING AND MAINTENANCE



TILTING COUNTER-PRESSURE CYLINDER



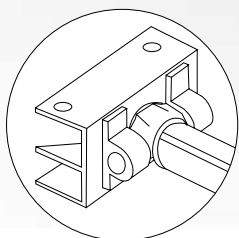
EXTRUSION PRESSURE CHANNEL  
CONTROLLED COMPLETELY BY  
PROPORTIONAL VALVES FOR GREATER  
BALE DENSITY  
IN WHATEVER CONDITION

TYING UNIT

REMOTE CONTROL PANEL

ELECTRICAL PANEL AND  
SIEMENS INDUSTRIAL PC

CENTRALLY OSCILLATING SUPPORT  
FOR MAIN CYLINDER



NEEDLES

IMPROVED DESIGN WITH THICKER SIDES

BOLTED HARDOX  
PLATES

BALE EXTRUSION  
CHANNEL



# MATERIALS PROCESSED AND PRODUCTION



RDF



EUROPA 150/200 kg/m³



C&I



200/300 kg/m³



MSW



300/350 kg/m³

MAC 110L/2

EUROPE

RDF 40 TON/H

C&I 48 TON/H

MSW 55 TON/H

USA

RDF 44 TON(US)/H

C&I 52 TON(US)/H

MSW 60 TON(US)/H

MAC 111L/2

EUROPE

RDF 42 TON/H

C&I 52 TON/H

MSW 60 TON/H

USA

RDF 46 TON(US)/H

C&I 57 TON(US)/H

MSW 66 TON(US)/H

MODEL  
**MAC 110L/2**





# 2X75 HP

MOTORS POWER

CUTTING AND THRUST POWER  
**170 TON / 374 800 LB**

## NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPA	3.4 m <sup>3</sup>	815 m <sup>3</sup> /h	4	15 sec
USA	120 ft <sup>3</sup>	28 781 ft <sup>3</sup> /h	4	15 sec

LOADING VOLUME

VOLUMETRIC PRODUCTION

CYCLES PER MINUTE

CYCLE TIME

## GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS	EUROPE (mm)	USA
OVERALL LENGTH	14 262	46'9"
MAXIMUM WIDTH	5 900 (at tier station)	19'4"
OVERALL HEIGHT	4 320 (flange of the hopper)	14'2"
FEED OPENING	2 000 x 1 020	79" x 40"
BALE DIMENSIONS WxH	1 100 x 1 100	43" <sup>1</sup> / <sub>3</sub> x 43" <sup>1</sup> / <sub>3</sub>
BALER WEIGHT WITHOUT FLUFFER	44 000 Kg (without oil)	97 003 lbs
BALER WEIGHT WITH FLUFFER	49 000 Kg (without oil)	108 026 lbs
NUMBERS OF WIRES	5	5

MODEL    
**MAC 110L/2**

EUROPE

RDF 40 TON/H
C&I 48 TON/H
MSW 55 TON/H

USA

RDF 44 TON(US)/H
C&I 52 TON(US)/H
MSW 60 TON(US)/H

## TECHNICAL DATA

## MAIN MOTORS POWER

2 x 55 kw

## MAIN HYDRAULIC PUMPS

Two "REXROTH" variable flow pump with full regenerative circuit

## PUMP FLOW CAPACITY

364 + 364 L/min  
96 + 96 US Gal/min

## OPERATING CONTROL

Siemens S7 1500  
programmable controller

## RAM FORCE

170 000 kg  
374 800 lbs

RAM FORCE  
PRESSURE

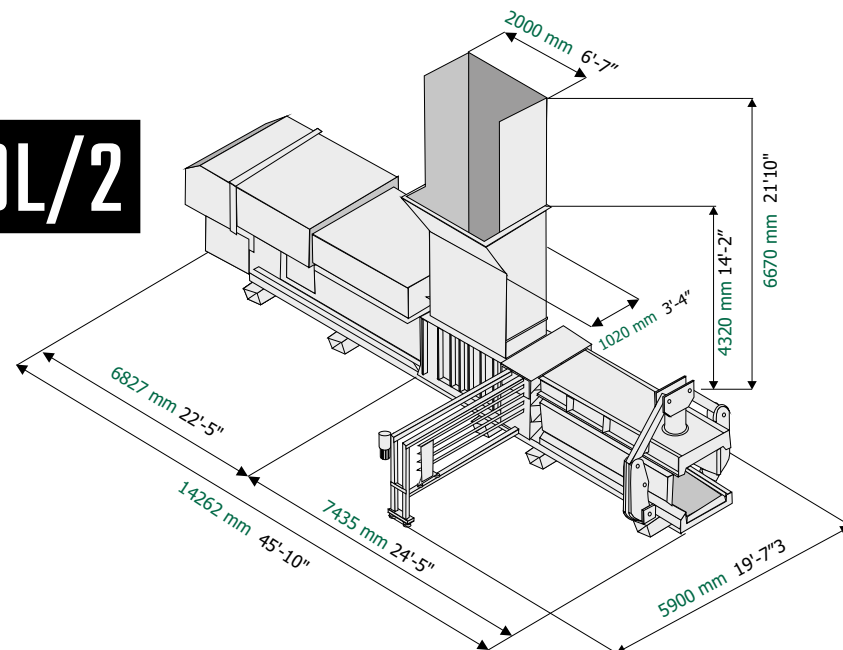
14 kg/cm<sup>2</sup>  
200 Psi

## OIL RESERVOIR CAPACITY

3 100 L  
820 US Gal

## COOLING SYSTEM

Thermostatically  
controlled air to oil  
heat exchangers



MODELLO  
**MAC 111L/2**





# 2X100 HP

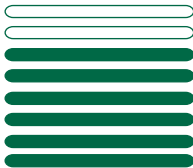
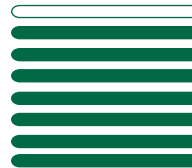
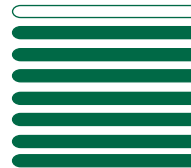

MOTORS POWER

# CUTTING AND THRUST POWER

# 170 TON / 374 800 LB

## NO LOAD PERFORMANCE

Note: Performance rates, bale weights and bale densities are subject to moisture content, material pre-bale densities, feed rates and other variables in baling.

EUROPA	3.4 m <sup>3</sup>	918 m <sup>3</sup> /h	4,5	13 sec
USA	120 ft <sup>3</sup>	28 781 ft <sup>3</sup> /h	4,5	13 sec
				
	LOADING VOLUME	VOLUMETRIC PRODUCTION	CYCLES PER MINUTE	CYCLE TIME

## TECHNICAL DATA

### MAIN MOTORS POWER

2 x 55 kw

### MAIN HYDRAULIC PUMPS

Two "REXROTH" variable flow pump with full regenerative circuit

### PUMP FLOW CAPACITY

455 + 455 L/min  
120 + 120 US Gal/min

### OPERATING CONTROL

Siemens S7 1500 programmable controller

### RAM FORCE

170 000 kg  
374 800 lbs

### RAM FORCE PRESSURE

14 kg/cm<sup>2</sup>  
200 Psi

### OIL RESERVOIR CAPACITY

3 100 L  
820 US Gal

### COOLING SYSTEM

Thermostatically controlled air to oil heat exchangers

## GENERAL SPECIFICATIONS

	EUROPE (mm)	USA
OVERALL LENGTH	14 262	46'9"
MAXIMUM WIDTH	5 900 (at tier station)	19'4"
OVERALL HEIGHT	4 320 (flange of the hopper)	14'2"
FEED OPENING	2 000 x 1 020	79" x 40"
BALE DIMENSIONS WxH	1 100 x 1 100	43" 1/3 x 43" 1/3
BALER WEIGHT WITHOUT FLUFFER	45 500 Kg (without oil)	100 310 lbs
BALER WEIGHT WITH FLUFFER	50 500 Kg (without oil)	111 333 lbs
NUMBERS OF WIRES	5	5

## MODEL

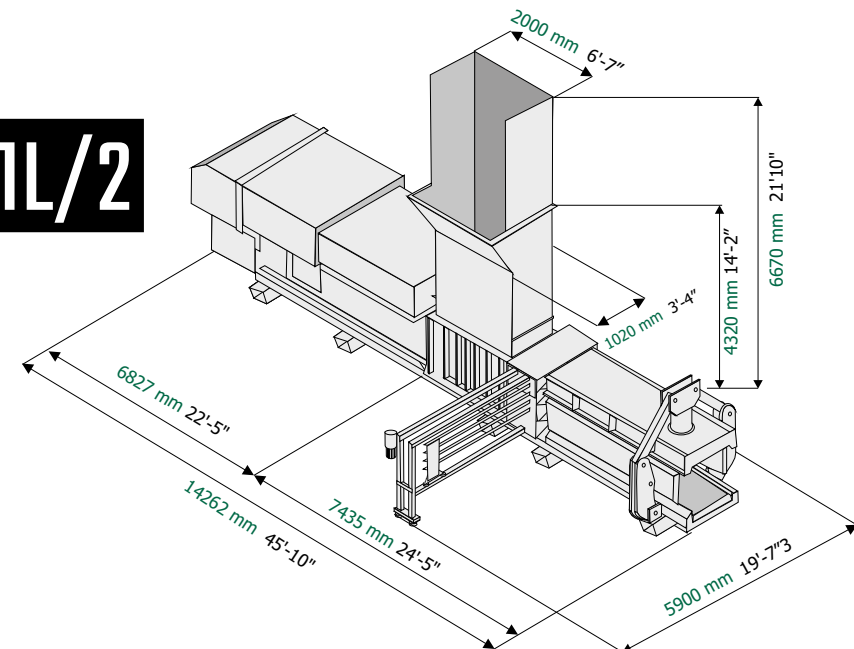
# MAC 111L/2

### EUROPE

RDF 42 TON/H  
C&I 52 TON/H  
MSW 60 TON/H

### USA

RDF 46 TON(US)/H  
C&I 57 TON(US)/H  
MSW 66 TON(US)/H





**WEAR RESISTANT**

**CORE VALUE**



## HARDOX STEEL LINERS



LONG LASTING



ROBUSTNESS



EASY  
MAINTENANCE

THIS WEAR RESISTANT SYSTEM PROTECTS THE BALER FROM ABRASION AND CORROSION.

Replaceable liners made of HARDOX wear-resistant steel alloy that extends working life of the equipment. The wear liners are bolted in the extrusion chamber and in the compaction box and can be easily replaced.

1. WEAR RESISTANT SYSTEM REDESIGNED TO REDUCE OPERATING COSTS
2. RESISTANCE TO WEAR AND CHEMICAL AGENTS
3. RAPID REPLACEMENT(PATENTED ATTACHMENT SYSTEM)
4. MINIMIZE BALER DOWNTIME

# 400%

**LONGER LASTING**  
than normal steel



HARDOX STEEL LINERS REPLACEMENT



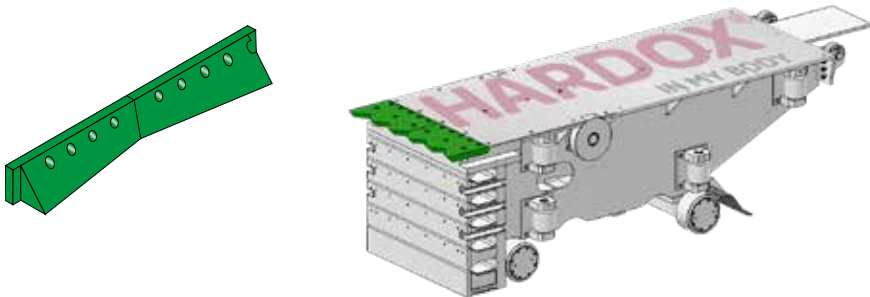


## CUTTING SYSTEM

### CORE VALUE

### HIGH EFFICIENCY BLADE

THE BLADES HAVE BEEN DESIGNED BY MACPRESSED TO OPTIMIZE THE CUTTING OF EXCESS MATERIAL IN THE HOPPER; THE BLADES ARE TEMPERED TO GUARANTEE A GREATER RESISTANCE TO WEAR.



### COUNTER-PRESSURE SYSTEM

HYDRAULIC QUICK RELEASE CIRCUIT FOR FAST ZERO-SETTING OF COUNTERPRESSURE SHOULD A FOREIGN OBJECT ACCIDENTALLY FALL IN THE HOPPER.



QUICK  
INTERCHANGEABILITY



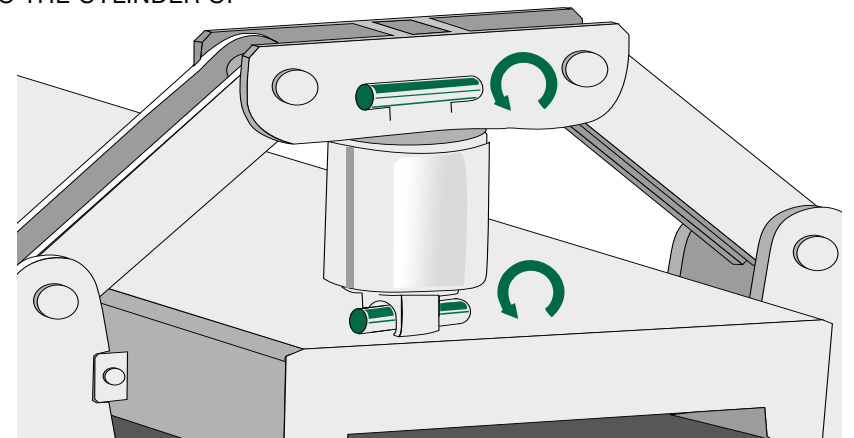
LOW ELECTRICAL  
CONSUMPTION

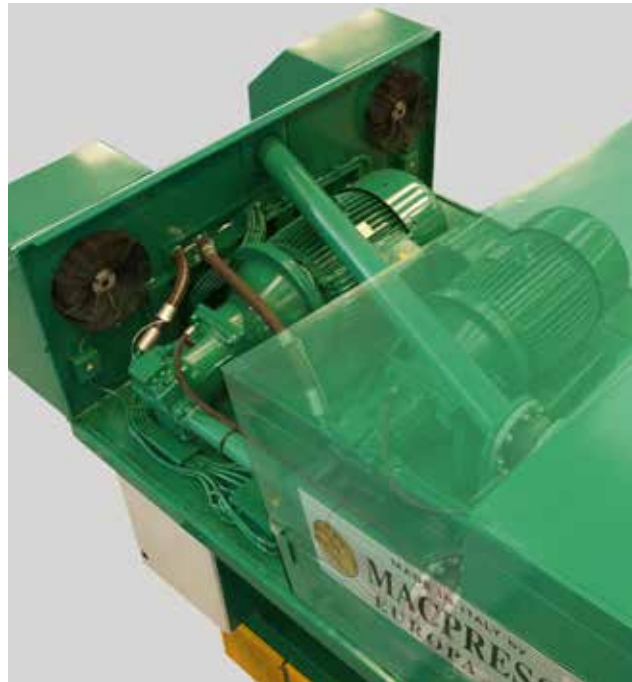


LONG SERVICE LIFE

### TILTING COUNTER-PRESSURE CYLINDER

THE SYSTEM IS DESIGNED TO AVOID MECHANICAL STRESS TO THE CYLINDER OF COUNTERPRESSURE





## HYDRAULICS

### CORE VALUE



**Rexroth**  
Bosch Group

## SMART SYSTEM ADAPTABLE TO MATERIAL

Pumps positioned outside of oil tank for a better performance and easier maintenance. The installation of variable flow pumps provides a better performance with reduced electrical consumption.

HIGH EFFICIENCY IE3 MOTORS ARE USED WITH AN ENERGY SAVINGS OF 30% COMPARED WITH TRADITIONAL MOTORS.

Hydraulic quick release circuit for fast zero-setting of counter pressure should a foreign object accidentally fall in the hopper.

# 30%

### ENERGY SAVINGS

compared with traditional motors



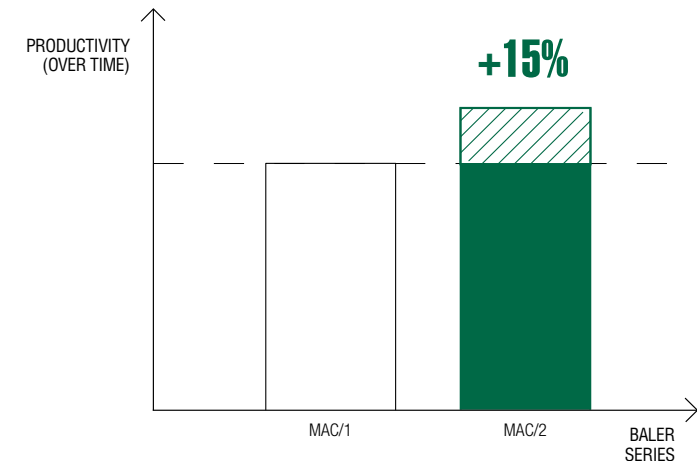
HARSH ENVIRONMENTS



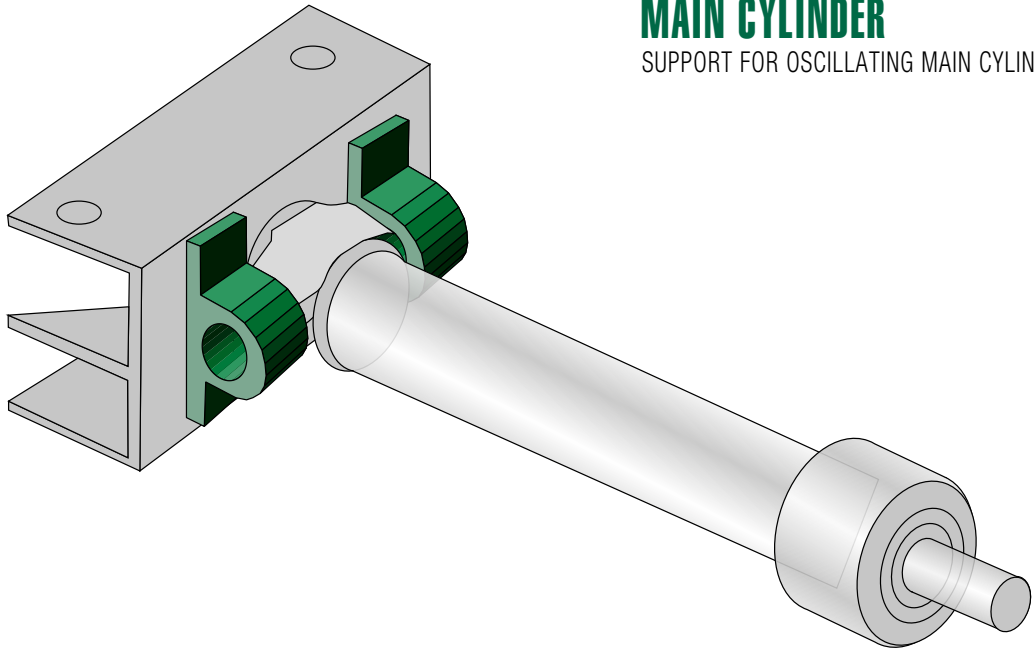
LOW ENERGY CONSUMPTION



EASY MAINTENANCE

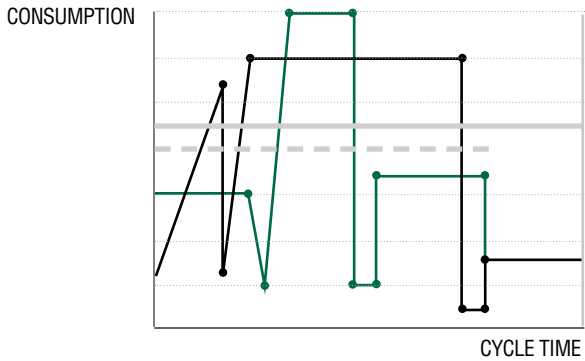




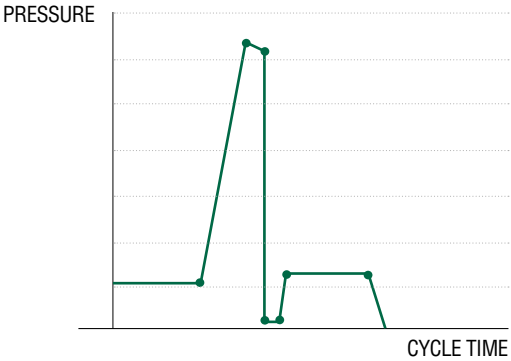


**MAIN CYLINDER**  
SUPPORT FOR OSCILLATING MAIN CYLINDER

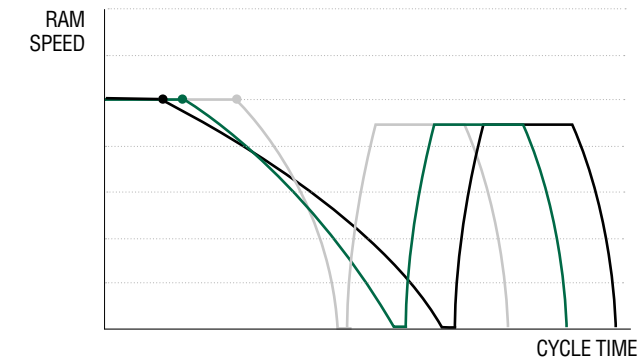
**CONSUMPTION - CYCLE TIME DIAGRAM**



**PRESSURE - CYCLE TIME DIAGRAM**



**RAM SPEED - CYCLE TIME DIAGRAM**



— CONSUMPTION TREND PRESS WITH PRE-COMPACTOR — CONSUMPTION TREND PRESS WITHOUT PRE-COMPACTOR — CONSUMPTION MEDIUM WITH PRE-COMPACTOR — CONSUMPTION MEDIUM WITHOUT PRE-COMPACTOR

— LIGHT MATERIAL — MEDIUM MATERIAL — HEAVY MATERIAL



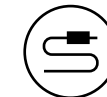
## ELECTRICAL COMPONENTS

## CORE VALUE

## CONNECTION OF ELECTRICAL COMPONENTS

Connections using SCART leads and electrical cables protected by rodent-proof and fire-resistant sheaths

**SIEMENS**



## NEWLY REDESIGNED AND DEVELOPED MACHINE MANAGEMENT SYSTEM



# MOBILE TYING MACHINE

## CORE VALUE

### FLEXIBILITY OF USE AND OPTIMISATION OF COSTS

ELECTROMECHANICAL HORIZONTAL TYING SYSTEM DESIGNED FOR TYING BOTH PLASTIC AND STEEL WIRES

This system simplifies the cleaning process for the tying machine, guaranteeing greater safety for the operator. The maintenance and cleaning of the tying machine is carried out at floor level, operations on the steel wire are not required beneath the machine.



ROBUSTNESS



RELIABILITY



FLEXIBILITY

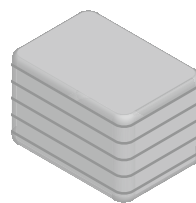


EASY  
MAINTENANCE

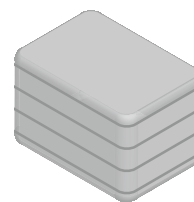


HYDRAULIC MOBILE TYING UNIT

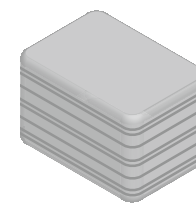
#### TYING METHOD



5 WIRES



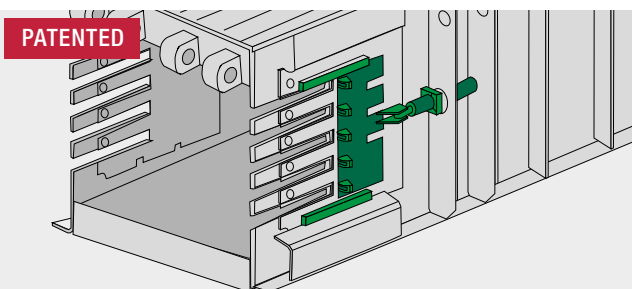
4 WIRES



5+3 WIRES

# +50%

TYING SPEED



HYDRAULIC SIDE DOORS FOR WIRE TYING UNIT PROTECTION



PLASTIC WIRE



STEEL WIRE REELS



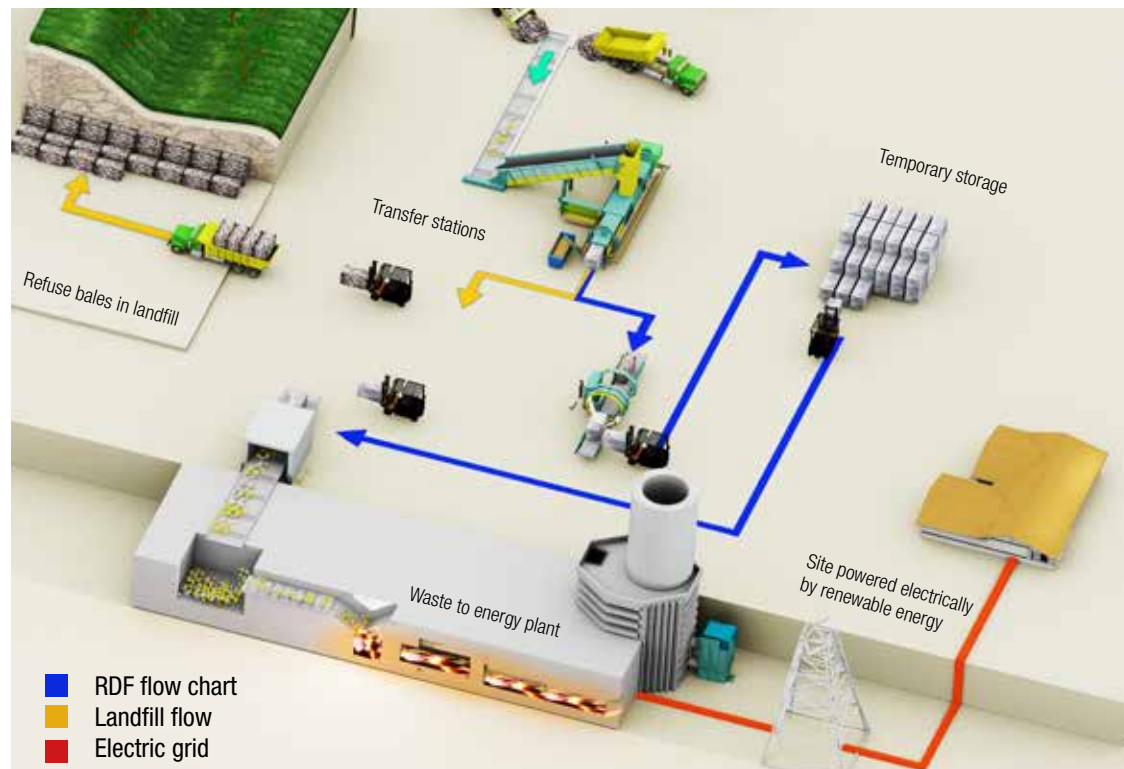
PLASTIC WIRE REELS

## WASTE FLOW OVERVIEW

**BALES CAN BE EITHER STORED FOR INCINERATION OR SENT TO LANDFILL FOR A SAFE DISPOSAL IN ORDER TO INCREASE ITS LIFE.**

WITH THE  
SAME SITE  
VOLUME  
THE LIFE OF  
THE LANDFILL IS  
INCREASED BY 30%

**30%**



## TRANSPORT EFFICIENCY

### ROAD TRANSPORT



### SEA TRANSPORT



### RAIL TRANSPORT



## STORAGE AND DISPOSAL SITES

### TEMPORARY STORAGE & DISPOSAL SITE CAPACITY





## TRANSFERT STATION

### HIGH DENSITY BALES 110 X 110 CM





# BALE LANDFILL





# ACCESSORIES OF BALERS

## OPTIONALS



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING SECONDARY  
RAW MATERIAL



RENEWABLE ENERGY  
AND BIOMASS



PAPER INDUSTRY



REAL TIME CONTROL



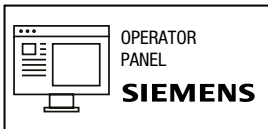
SENSORS CONTROL



PRODUCTION REPORT

## MAC SUPERVISOR SYSTEM MSS1

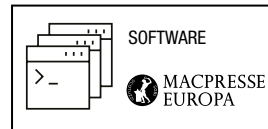
**SIEMENS**



+



+



INTERNET  
CONNECTIVITY



OUTPUT  
OPTIMIZATION



DOWNTIME  
REDUCTION



## PRODUCTION MANAGEMENT

- BALE COUNTER PER TYPE
- TOTAL PRODUCTION IN TONS EACH GRADE MATERIAL
- DOWNTIME RECORDED
- PRODUCTION TIME
- PRODUCTION TIME TON/H
- PRODUCTION TIME TON/H SHIFT
- ELECTRIC ENERGY CONSUMPTION KW/H
- ELECTRIC ENERGY CONSUMPTION COST PER TON
- LABOR COST PER TON
- COST PER TON ON EACH GRADE PROCESSED.
- BALING WIRE COST PER TON
- RECORDS DIVIDED PER SHIFT (NR. 3 MAX AVAILABLE)
- A. 20 SETTINGS OR MORE OF MACHINE PARAMETERS ACCORDING TO MATERIAL TO BE BALED (COMBINED WITH MDC SYSTEM)
- B. ALARMS MANAGEMENT
- C. REMOTE ASSISTANCE
- D. 5 LANGUAGES





PRODUCTION REPORT



ALERT NOTIFICATION

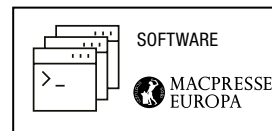
## MAC SUPERVISOR SYSTEM MSS2 SIEMENS



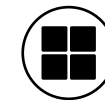
+



+



INTERNET  
CONNECTIVITY



OUTPUT  
OPTIMIZATION



DOWNTIME  
REDUCTION



## PRODUCTION MANAGEMENT

- BALE COUNTER TOTAL
- TOTAL ACTIVITY TIME
- BALE COUNTER PARTIAL RESETTABLE
- ACTIVITY TIME RESETTABLE

## FUNCTIONS

- 5 SETTINGS AVAILABLE (COMBINED WITH MDC – MAC DENSITY CONTROL)
- ALARMS MANAGEMENT
- REMOTE ASSISTANCE
- 5 LANGUAGES

## OPTIMIZATION OF PRODUCT OUTPUT AND REDUCTION OF BALER DOWNTIME AND OPERATING COSTS



## HYDRAULIC SYSTEM MDC

### IMMEDIATE RECONFIGURATION OF MACHINE PARAMETERS FOR MULTI-MATERIAL PROCESSING

**AUTOMATIC CONFIGURATION OF BALING PARAMETERS ACCORDING ON  
SELECTED INFED MATERIALS, TO ACHIEVE MAXIMUM BALE DENSITY,  
REDUCTION OF TRANSPORT COSTS**

#### PROCESSING ADVANTAGES:

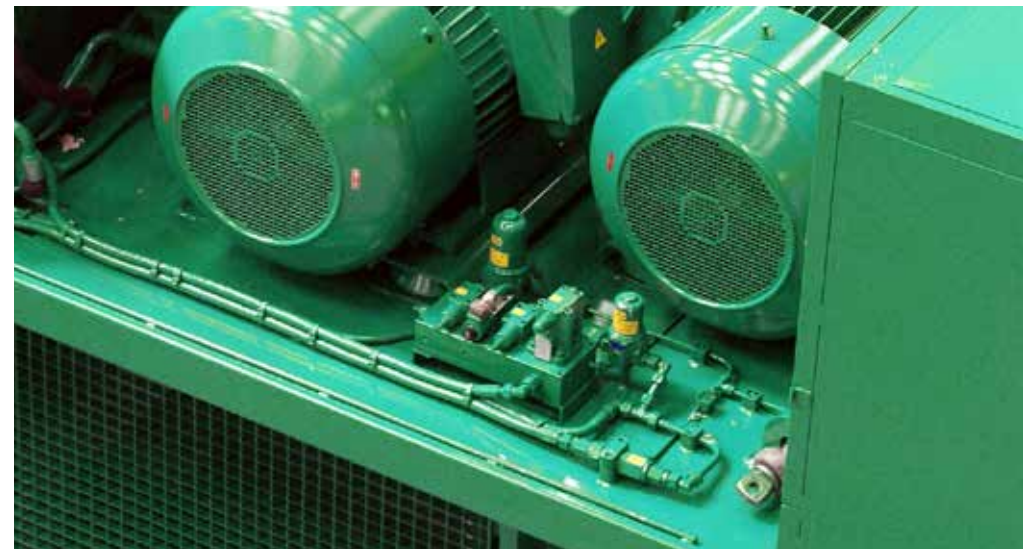
OPTIMISED BALES WEIGHT ACCORDING TO MATERIAL TO BE BALED



OUTPUT  
OPTIMISATION



LOW COST







## FLUFFER FOR WASTE PAPER



PLANT  
CLEANING



OPERATOR  
SAFETY



EASY  
MAINTENANCE



## FLUFFER FOR WASTE PAPER

MECHANICAL DEVICE FOR PROCESSING PAPER MATERIALS, TO REDUCE DENSITY PRIOR TO COMPACTION, OBTAINING:

- INTEGRITY OF IDEAL BALES
- REDUCED ELECTRICAL CONSUMPTION
- GREATER DENSITY
- EASY HANDLING



**MAC POLY-TIE<sup>©</sup>**

## **FLEXIBILITY OF USE AND REDUCED OPERATING COSTS**

**THE PATENTED MACPRESSE BINDING MACHINE CAN USE EITHER STEEL OR PLASTIC WIRE AS NEEDED. CHANGING FROM THE PLASTIC WIRE TO STEEL WIRE CAN BE DONE QUICKLY AND EASILY.**

THE ELECTRO-MECHANICAL PLASTIC WIRE TYING UNIT HAS BEEN DESIGNED SPECIFICALLY FOR USERS THAT NEED TO BALE RDF WASTE TO BE SENT TO WASTE INCINERATION FACILITIES, IN ORDER TO AVOID METAL LEFTOVER IN ASH THAT INCREASE OPERATIONAL, MAINTENANCE AND DISPOSAL COST.

To prevent potential unwinding, suggested bale length is 1,4 - 1,6 METERS



RELIABILITY



ROBUSTNESS



FLEXIBILITY



EASY  
MAINTENANCE







## COLLECTION OF LEACHATES AND REJECTS

### ESSENTIAL FOR BALING MUNICIPAL SOLID WASTE WITH ORGANIC MATERIAL

It is essential to keep the workplace clean and free of leachate and residue to increase safety of personnel.



PLANT  
CLEANING



OPERATOR  
SAFETY



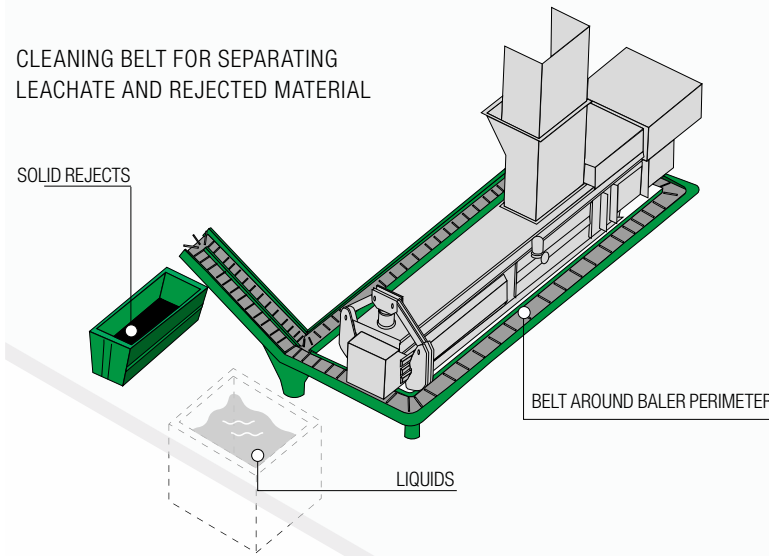
EASY  
MAINTENANCE



SOLID WASTE COLLECTION TANK

CLEANING BELT FOR SEPARATING  
LEACHATE AND REJECTED MATERIAL

SOLID REJECTS



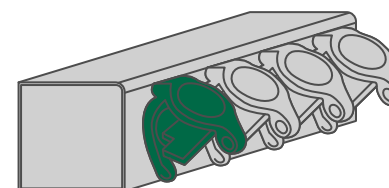
THE CLEANING CONVEYOR WITH CHAIN AND SCRAPERS IS INSTALLED AROUND THE PERIMETER OF THE BALER. LEACHATE AND REJECTED MATERIALS ARE COLLECTED AND DISPOSED OF IN SPECIAL TANKS.



## SECURITY SYSTEM MSK



KEY-LOCK BLOCK



OPERATOR SAFETY

### MSK MAC SAFETY KEYS

INSTALLED ON ALL EQUIPMENT ACCESS DOORS.

MSK MAC SAFETY KEYS SYSTEM HAS BEEN DESIGNED TO OFFER ENHANCED SAFETY DURING OPERATIONS IN COMPARISON WITH THE BASIC STANDARDS REQUIRED BY THE SAFETY REGULATIONS CURRENTLY IN FORCE.

THE MSK (MAC SAFETY KEYS) SYSTEM ALLOWS SAFE MACHINE MAINTENANCE AND CLEANING, ACTIVATING ACCESS DOOR OPENING BY MEANS OF CASTLE LOCK KEYS. THE KEYS ARE RELEASED ONLY WHEN THE ELECTRICAL CONTROL PANEL IS SWITCHED OFF.





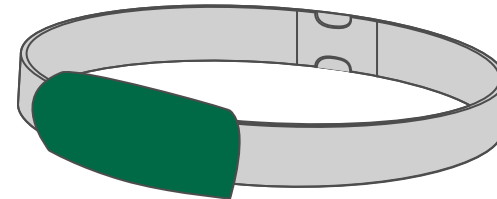
## SECURITY SYSTEM MSB



MACPRESSED SAFETY BELT (MSB)



OPERATOR SAFETY



## OPERATOR SAFETY SYSTEM

MSB (MAC SAFETY BRACELET) IS A MACPRESSED PATENT

THIS SPECIAL INNOVATION PROTECTS EMPLOYEES SHOULD THEY FALL ONTO THE CONVEYOR. THE EQUIPMENT IS IMMEDIATELY STOPPED AND AN ALARM IS SOUNDED TO ALERT OTHERS OF AN ACCIDENT. THE EQUIPMENT CANNOT BE RESTARTED UNTIL THE EMPLOYEE IS REMOVED FROM THE DANGER ZONE.

## PRODUCT SERIES

# BALING & WRAPPING WASTE MATERIAL

## FILM WRAPPERS CAN BE INTEGRATED WITH THE BALERS

Suitable models depending on the hourly production needed



ENVIRONMENTALLY  
FRIENDLY



ODOR-FREE



NO LEACHATE

## 20-50 BALES/HOUR

WE CAN SUPPLY PRESSES FOR BALING MUNICIPAL SOLID WASTE AND RDF/SRF WITH VARIOUS POWER RATINGS, WITH A PRODUCTION OF UP TO 50 TONS/HOUR

Bales/h

50-60

40-45

30-35

10-15

PRODUCTION

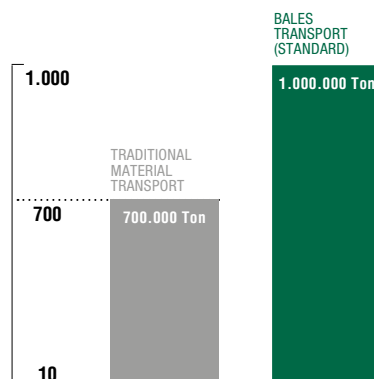
### ADVANTAGES OF PLASTIC FILM WRAPPING

- CLEAN AND TIDY STORAGE AND HANDLING
- REDUCED VOLUME OF 3 TO 4 TIMES FOR MSW
- NO FERMENTATION
- NO ODOR
- PRESERVES MATERIAL PROPERTIES - NO ENERGY AND MASS LOSS
- NO FIRE RISK FROM SELF IGNITION
- WATERTIGHT OUTDOOR STORAGE
- TRANSPORT OF BALES DO NOT REQUIRE SPECIAL TRUCKS

### TRANSPORT EFFICIENCY



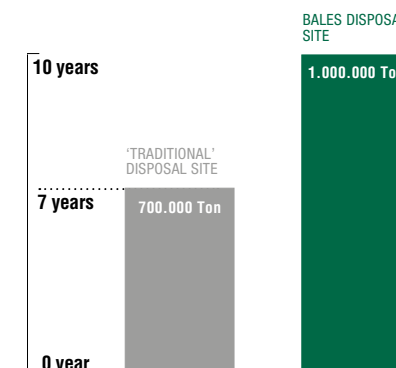
### HIGH FLEXIBILITY WHEN CHOOSING THE METHOD OF TRANSPORTATION



### STORAGE AND DISPOSAL SITES



### CAPACITY OF DISPOSAL SITE OVER TIME FOR SAME VOLUME





# STEEL PLATE CONVEYORS BELTS DESIGNED FOR ALL MATERIALS



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING SECONDARY  
RAW MATERIAL

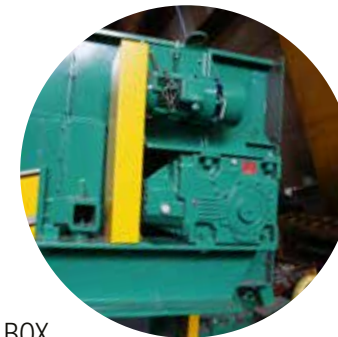


RENEWABLE ENERGY  
AND BIOMASS



PAPER INDUSTRY

# SERIES CONVEYOR BELTS



MOTOR AND GEAR BOX



EMERGENCY  
STOP ROPE



OIL TANK



PUSH-BUTTON



EASILY REPLACEABLE STEEL SLATS



TAIL PULLEY TENSIONING  
DEVICE



# MATERIALS PROCESSED AND PERFORMANCE



PLASTIC BOTTLES

L Series

CHAIN WIDTH 

CHAIN PITCH 100 mm

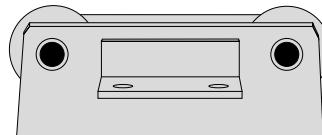


HEAVY WASTE PAPER, RDF

P Series



CHAIN PITCH 200 mm

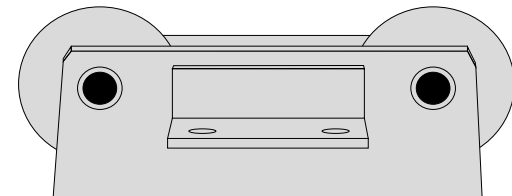


MUNICIPAL SOLID WASTE,  
INDUSTRIAL WASTE, DEMOLITION  
WASTE, RDF

PP Series



CHAIN PITCH 250 mm



# L SERIES: LIGHT LOADS





**5,5 HP**  
MOTOR POWER

CHAIN PITCH  
**100 mm 3" 15/16**

MATERIALS  
**PLASTIC MATERIALS AND LIGHT WASTE PAPER**

#### GENERAL SPECIFICATIONS

#### EXTERNAL CONVEYOR WIDTH

#### LOADING WIDTH

EUROPE (mm)

USA

EUROPE (mm)

USA

1000 L

1 100

43"

850

33"

1500 L

1 550

61"

1 300

51"

1800 L

1 700

67"

1 450

57"

2100 L

2 000

79"

1 750

69"

**THESE CONVEYOR BELTS ARE DESIGNED FOR THE PLASTIC RECYCLING INDUSTRY AND FOR THE PROCESSING OF LIGHT WASTE PAPER LOADS.**

## L SERIES: LIGHT LOADS

MOTOR POWER

4 KW

THE L SERIES STEEL PLATE CONVEYOR BELTS ARE OFTEN COUPLED WITH TWO MODELS OF BALERS MAC 102, 106/2, 107/2; BOTH BALER AND CONVEYOR MUST BE PROPERLY MATCHED TO ENSURE OPERATING AND PRODUCTION EFFICIENCY.

## MAC 106/2 - 107/2 BALING PRESS



CHAIN AND GUIDE



MOTORIZED HEAD PULLEY «L» SERIES



CHAIN PITCH 100 MM

P SERIES:  
**HEAVY LOADS**





# 7,5 - 10 HP

MOTOR POWER

CHAIN PITCH  
200 mm 7" 7/8

MATERIALS  
WASTE PAPER, BIOMASS, RDF-SRF

## GENERAL SPECIFICATIONS

## EXTERNAL CONVEYOR WIDTH

## LOADING WIDTH

EUROPE (mm)

USA

EUROPE (mm)

USA

1500 P

1 481

58"

1 181

47"

1800 P

1 741

68"

1 441

57"

2100 P

2 086

82"

1 786

70"

2250 P

2 250

88"

1 950

76"

P SERIES:

# HEAVY LOADS

MOTOR POWER

5,5 - 7,5 KW

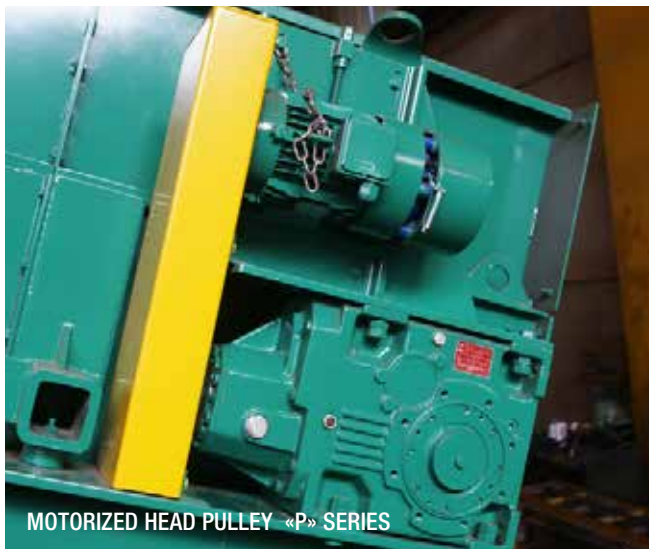
THE P SERIES IS SUITED TO MATCH BALERS WITH VERY HIGH HOURLY PRODUCTION DEMANDS.

**THIS SERIES IS USED ALSO IN PAPER MILLS TO LOAD PULPERS BECAUSE THEY CAN TRANSPORT BALES WEIGHING SEVERAL TONS FOR THE WHOLE LENGTH WITHOUT ANY PROBLEM.**

## MAC 106/2 TO MAC 112XL BALING PRESSES



GUIDES WEAR-RESISTANT PLATE FOR THE CHAIN



MOTORIZED HEAD PULLEY «P» SERIES



CHAIN PITCH 200 MM



## PP SERIES: HEAVIER LOADS





**10 HP**  
MOTOR POWER

CHAIN PITCH  
**250 mm 10"**

MATERIALS:  
**RDF-SRF, MUNICIPAL SOLID WASTE**

GENERAL SPECIFICATIONS

EXTERNAL CONVEYOR WIDTH

LOADING WIDTH

	EUROPE (mm)	USA	EUROPE (mm)	USA
1500 PP	1 550	61"	1 170	46"
1800 PP	1 825	72"	1 445	57"
2100 PP	2 170	85"	1 790	70"

PP SERIES:  
**HEAVIER LOADS**

MOTOR POWER 7,5 KW

THE PP SERIES IS GENERALLY USED IN LARGE WASTE TREATMENT PLANTS AND MSW BALERS.

**THE MAC SERIES PP CONVEYOR BELTS HAVE CHARACTERISTICS WHICH DISTINGUISH THEM FROM THOSE OF COMPETITORS. THE CHAIN PITCH AND THE DRIVE UNITS ARE DESIGNED TO HANDLE EXCEPTIONALLY HARSH AND HEAVY LOADS.**

**MAC 108/2 TO MAC 112XL  
BALING PRESS**





## STEEL PLATE CONVEYORS BELTS CONFIGURATIONS

### STEEL BELTS FOR WASTE PAPER, RECYCLABLES PLASTIC, WASTE AND BALED WASTE PAPER

MACPRESSE ENGINEERING DEPARTMENT USES EXPERT TECHNICIANS WHO DESIGN EFFICIENT LAYOUT SOLUTIONS TO SATISFY THE NEEDS OF EACH CUSTOMER. DESIGNS ARE PREPARED RANGING FROM SIMPLE CONVEYOR UNITS WHICH FEED THE BALERS UP TO COMPLETE SORTING SYSTEMS.





## CONVEYORS DISCHARGE SECTIONS

MOTORIZED HEAD PULLEY SECTION  
WITH 0° INCLINATION



MOTORIZED HEAD PULLEY SECTION  
WITH 30° INCLINATION



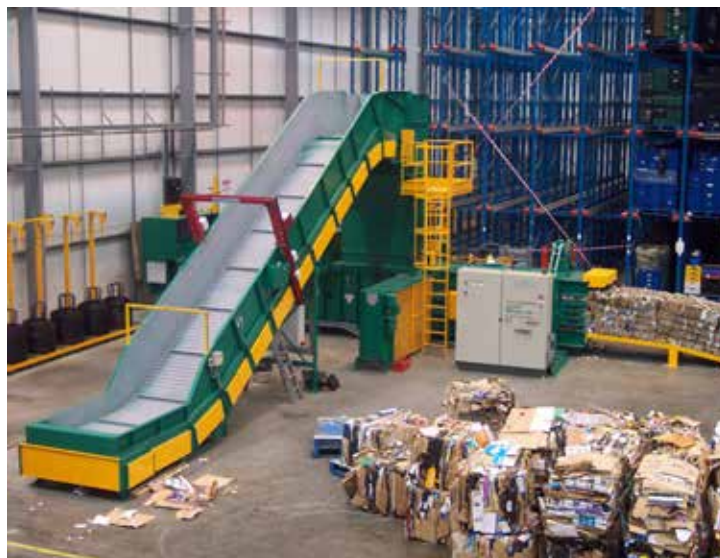
MOTORIZED HEAD PULLEY SECTION  
WITH 45° INCLINATION



MOTORIZED HEAD PULLEY SECTION  
WITH 60° INCLINATION



## CONVEYORS LOADING SECTIONS



LOADING SECTION  
OUT OF PIT



LOADING SECTION  
IN PIT



## OTHER ACCESSORIES

OPTIONAL



CONVEYOR TUNNELING FROM SHREDDERS



DUST FILTER WITH BRIQUETTING MACHINE



PRE-COMPACTOR FOR CARDBOARD



TRANSITION HOPPER



CENTRALISED LUBRICATION SYSTEMS



INVERTER



BUNKER CONVEYOR



LOADING HOPPER



TIPPING QUALITY CONTROL SIDE PANELS



# SHREDDERS: DESIGNED FOR PAPER RECYCLERS & PAPER MILLS SINCE 1968



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING SECONDARY  
RAW MATERIAL



RENEWABLE ENERGY  
AND BIOMASS



PAPER INDUSTRY

# SHREDDERS SERIES:

## GENERAL DESCRIPTION



LOADING  
HOPPER



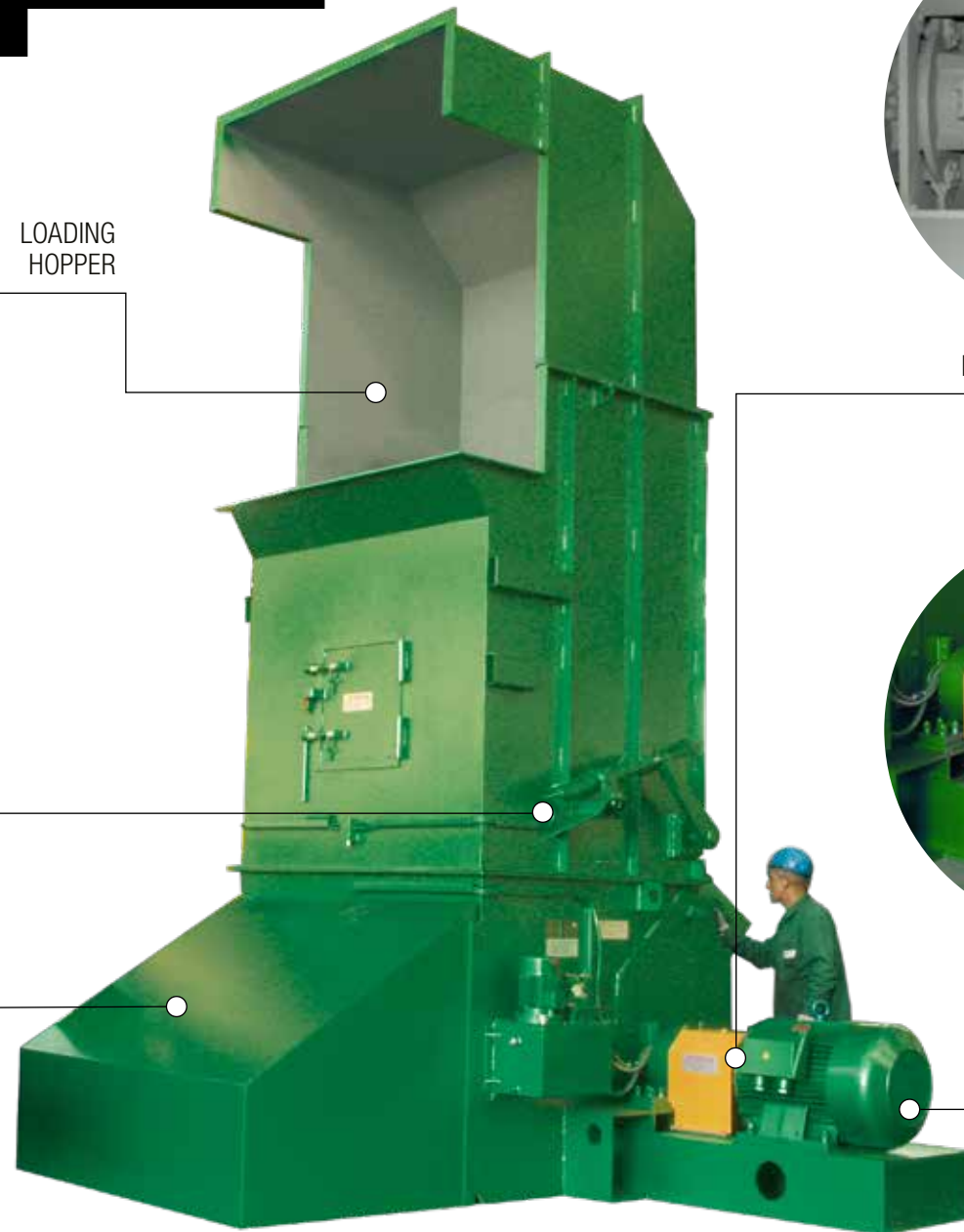
BOLTED HAMMERS ROTOR

HYDRAULIC BYPASS



ELECTRIC MOTOR AND  
SUPPORTS

HOPPER





# MATERIALS PROCESSED AND PRODUCTION



Mac 1000

EUROPA  
PRODUCTION 6-10 TON/H

USA  
PRODUCTION 6,6-11 TON (US)/H

Mac 1500

EUROPA  
PRODUCTION 11-15 TON/H

USA  
PRODUCTION 12-17 TON (US)/H

Mac 2000

EUROPA  
PRODUCTION 18-22 TON/H

USA  
PRODUCTION 20-25 TON (US)/H

**60 HP**  
MOTOR POWER

LOADING HOPPER  
**100 CM / 39"**



#### GENERAL SPECIFICATIONS

	EUROPE	USA
MOTOR POWER	45 KW	45 KW
DIMENSIONS OF LOADING HOPPER	1000 mm	39"
PRODUCTION	6-10 TON/H	6.6-11 TON(US)/H
SHREDDER WEIGHT	5.500 KG	12.000 lb

#### MODEL

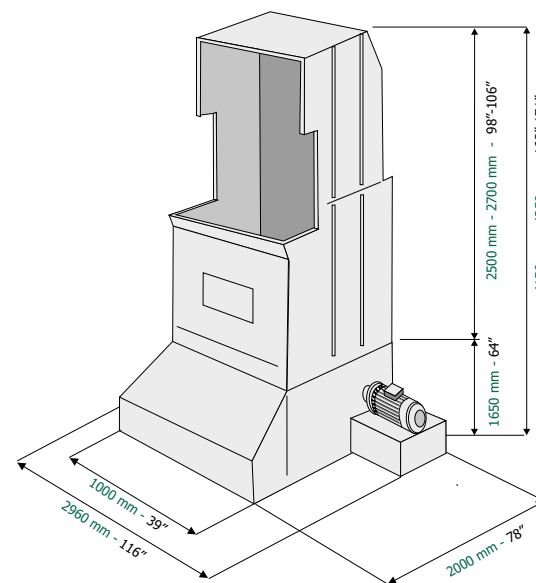
**MAC 1000**

TO GET A BALANCED OUTPUT BETWEEN  
BALER AND SHREDDER WE RECOMMEND

IDEAL FOR SHREDDING WASTE  
PAPER WITH A HIGH SPECIFIC  
WEIGHT

This model is designed with a single fast rotor  
and bolted hammers for high hourly production  
rates. Thick bulky packs such as magazines,  
newspapers, paper cores and books.

**MAC 106/2 - MAC107/2  
BALERS**





**75-100 HP**  
MOTOR POWER

LOADING HOPPER  
**150 CM / 59"**



#### GENERAL SPECIFICATIONS

	EUROPE	USA
MOTOR POWER	55-75 KW	55-75 KW
DIMENSIONS OF LOADING HOPPER	1500 mm	59"
PRODUCTION	11-15 TON/H	12-17 TON(US)/H
SHREDDER WEIGHT	7.500 KG	17.000 lb

#### MODEL

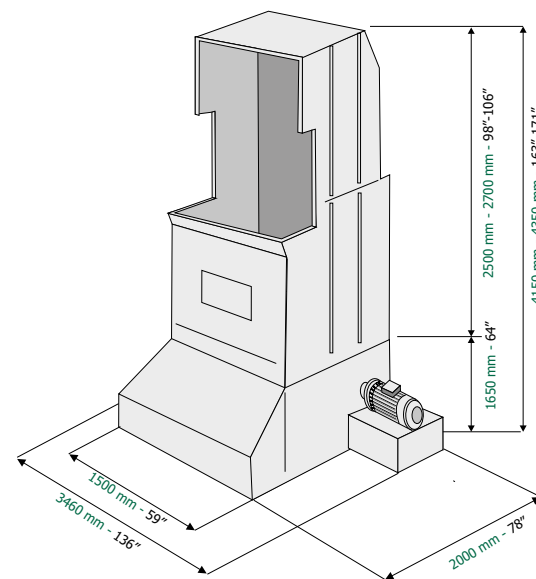
**MAC 1500**

TO GET A BALANCED OUTPUT BETWEEN  
BALER AND SHREDDER WE RECOMMEND  
COUPLING THIS MODEL WITH

#### IDEAL TO SHRED WASTE PAPER

This model is designed with a single fast rotor and bolted hammers for high hourly production rates. Thick bulky packs such as magazines, newspapers, paper cores and books are easily shredded .

**MAC 106/2 -107/2 -108/2  
BALERS**



# 120-150 HP

MOTORS POWER

LOADING HOPPER  
**200 CM / 78"**



## GENERAL SPECIFICATIONS

	EUROPE	USA
MOTOR POWER	90-110 KW	90-110 KW
DIMENSIONS OF LOADING HOPPER	2000 mm	78"
PRODUCTION	18-22 TON/H	20-25 TON(US)/H
SHREDDER WEIGHT	8.500 KG	18.260 lb

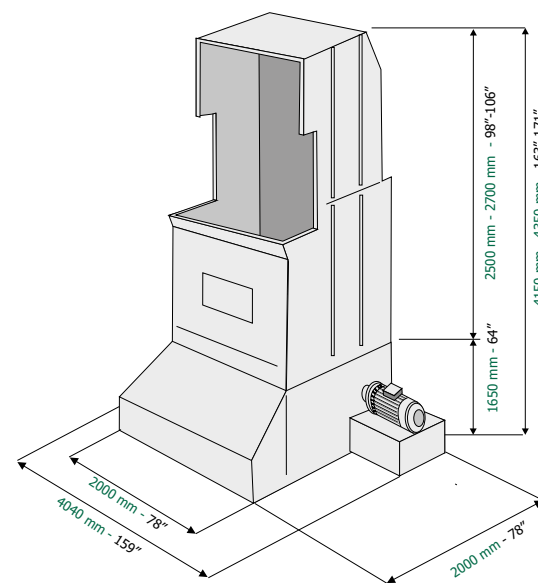
## MODEL MAC 2000

TO GET A BALANCED OUTPUT BETWEEN  
BALER AND SHREDDER WE RECOMMEND  
COUPLING THIS MODEL WITH

### IDEAL TO SHRED WASTE PAPER

This model is designed with a single fast rotor and bolted hammers for high hourly production rates. Thick bulky packs such as magazines, newspapers, paper cores and books are easily shredded .

## MAC 110/2 - MAC 112XL BALERS





**200 HP**  
MOTOR POWER

LOADING HOPPER  
**150 CM / 59"**

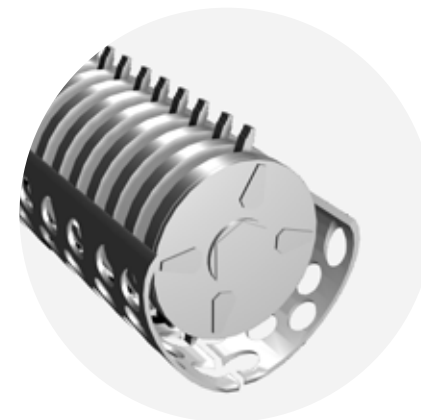
CONFIDENTIAL DOCUMENTS DESTRUCTION  
**MAC 1500D**



HYDRAULIC GRIDS



SUCTION HOPPER



ROTOR WITH PIVOTING HAMMERS

ELECTRIC MOTOR AND SUPPORTS



# DIMENSIONS AND PRODUCTIONS

## PROCESSING COMPARISON



EASY  
MAINTENANCE



HIGH DENSITY  
BALES



PRIMARY SHREDDER DOUBLE SHAFT SLOW  
HYDRAULIC MULTI-MATERIAL



SHREDDER MAC 1500 D GRIDS 38 MM



SHREDDER MAC 1500 D GRIDS 28MM

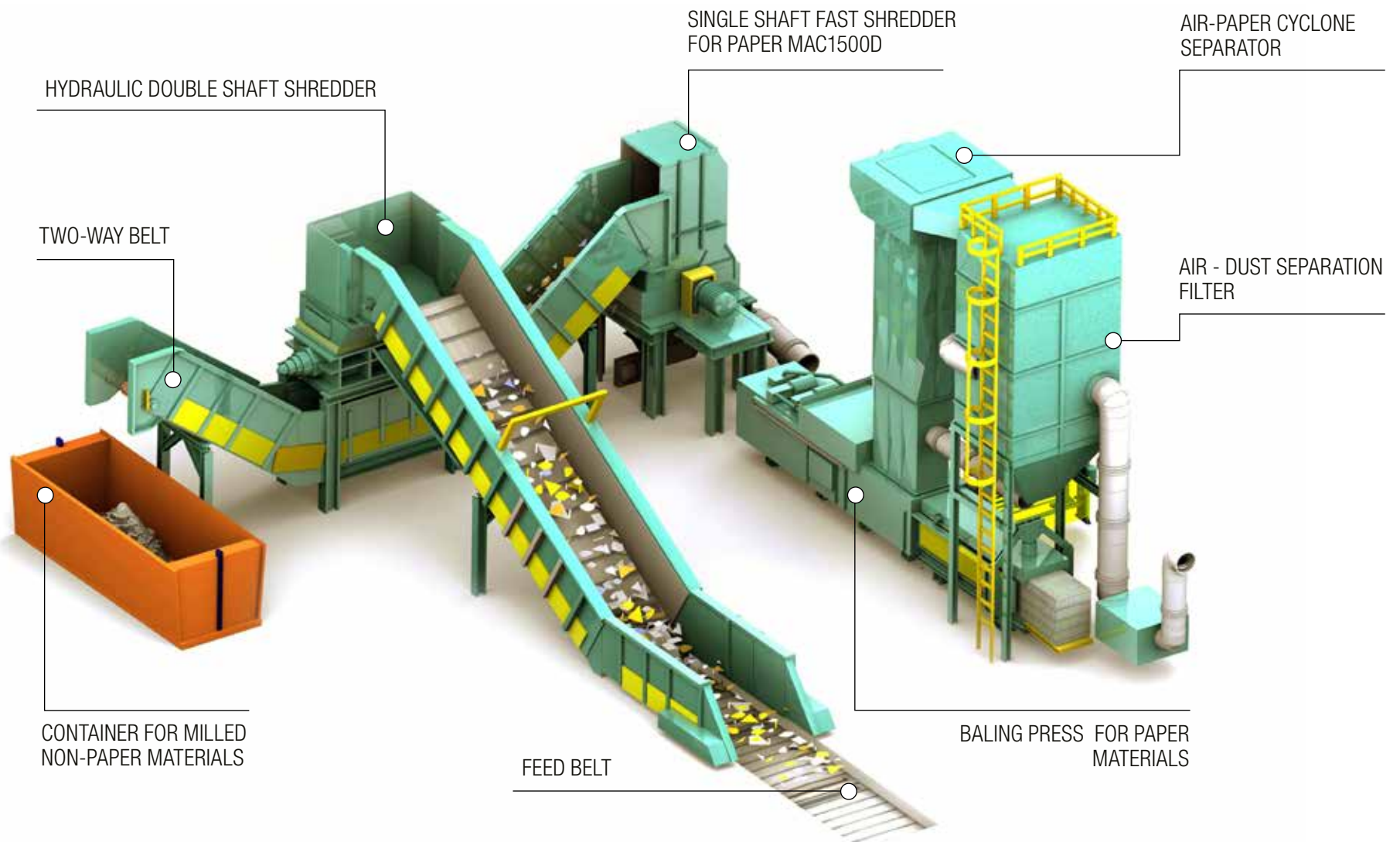
TECHNICAL DATA	EUROPE	USA
MOTOR POWER	150 KW	150 KW
ROTOR/MOTOR SPEED	1000 RPM	1000 RPM
LOADING HOPPER	1500 X 1403 mm	60" X 55"
SHREDDER WEIGHT	14000 KG	30800 LB

OUTPUT PER HOUR WITH CONTINUOUS FEEDING			
EUROPE	Ø 70 mm	Ø 35 mm	Ø 28 mm
USA	Ø 2" 3/4	Ø 1" 3/8	Ø 1" 7/64
	6 - 7 TON/H	3,5 - 4 TON/H	2 - 3 TON/H



# CONFIDENTIAL DOCUMENTS DESTRUCTION

## GENERAL DESCRIPTION



## ACCESSORIES

### OPTIONALS

**ALL SHREDDERS CAN BE EFFICIENTLY SOUNDPROOFED AND EQUIPPED WITH DUST REDUCTION SYSTEMS.**



LONG  
LASTING



ROBUSTNESS



EASY  
MAINTENANCE



SOUNDPROOFING CABIN





## ACCESSORIES

## OPTIONALS



DUST SUCTION SYSTEM



DUST SUCTION SYSTEM

A SOLID SHREDDER PLANT WITH TREMENDOUS OUTPUT A LOW RUNNING COST.

THIS MACHINE HAS BEEN CONSTRUCTED TO SHRED CORES, THICK VOLUME BOOKS, TELEPHONE DIRECTORIES

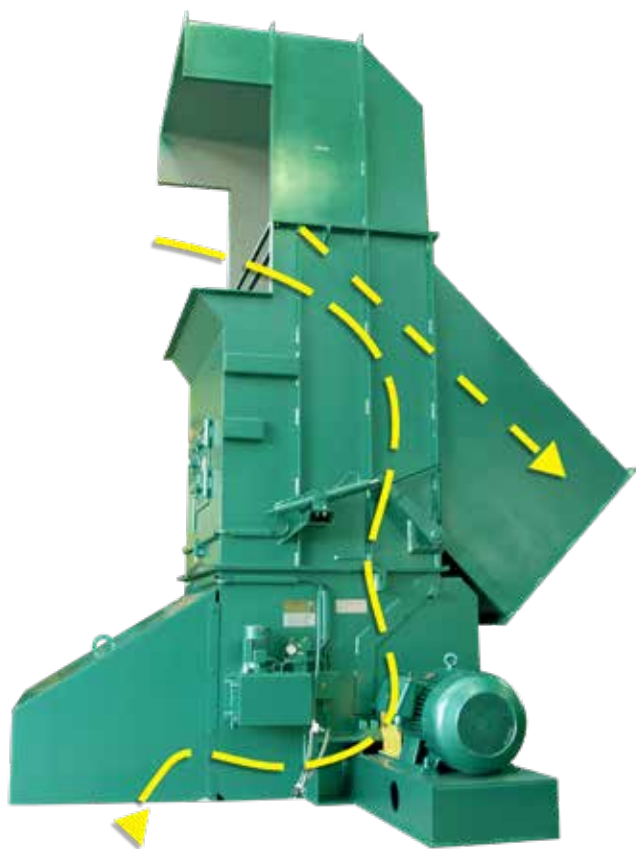
THE MACPRESSE SHREDDER WILL SHRED REEL OF PAPER AND BUNDLES OF NEWSPAPERS (WITHOUT REMOVAL OF STRAPS) AND OTHER TYPE OF HEAVY WASTE PAPER. THE CONTROLS FOR THE SHREDDER ARE LOCATED IN THE MAIN ELECTRIC PANEL.



DUST FILTER AND PELLET MACHINE



PELLETS OF DUST



## BYPASS SYSTEM

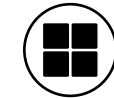
THE BYPASS SYSTEM INSTALLED INSIDE THE HOPPER ALLOWS THE MATERIALS ENTERING INTO THE MACHINE TO EXIT FROM AN ALTERNATIVE WAY (EG. A BIN) IN CASE OF MACHINE STOP (EG. FOR MAINTENANCE). IN THIS WAY A PLANT DOWNTIME WILL NOT OCCUR.





## VARIOUS LAYOUTS

**MACPRESSED PROVIDES 3 MODELS SUITABLE FOR ANY TYPE OF WASTE PAPER.**



OUTPUT  
OPTIMISATION



LOW COST



L-CONFIGURATION



CONFIGURATION IN LINE WITH BYPASS



T-CONFIGURATION

**THE QUANTITY OF BOLTED HAMMERS AND FLANGES DESIGNED AND CUSTOMIZED FOR THE CUSTOMER'S SPECIFIC REQUIREMENTS AND THE MATERIALS TO BE PROCESSED.**

BOLTED SUPPORTS SPECIALLY MANUFACTURED BY MACPRESSED ARE CONSTRUCTED WITH HIGH RESISTANCE BEARINGS CONNECTING THE ROTOR OF THE SHREDDER TO THE MOTOR; HAMMERS ARE INTERCHANGEABLE AND BOLTED TO THE ROTOR AND ARE COATED WITH A HARD WEAR-RESISTANT METAL ALLOY.



# 30%

**ENERGY  
SAVINGS**  
COMPARED TO  
TRADITIONAL MOTORS



# MACPRESSE PLANTS INCREASING THE VALUE OF WASTE





# WASTE PROCESSING PLANTS



MUNICIPAL SOLID  
WASTE PROCESSING



RECYCLING RAW MATERIALS



RENEWABLE ENERGY &  
ENGINEERED FUELS



PAPER INDUSTRY

# AUTOMATIC SORTING PLANT FOR RECYCLABLES

## 25-30 TON/H

BUNKER AND BALLISTIC  
SEPARATOR STADLER



STAR DISC SCREEN



QUALITY CONTROL



OPTICAL SELECTOR



END-OF-LIE-STORAGE  
BUNKER



SHREDDER MAC 2000



BALER FEED LOADING  
BELT



BALER FEED BELT



MAC 111/1 BALERS



# SORTING AND BALING MUNICIPAL SOLID WASTE

## MSW - 50/55 TON/H

MSW INFEEED BELTS



ROTARY SCREENS  
AND UNDERSCREEN COLLECTION



END-OF-LINE BYPASS BELTS



MAC 111L/1 BALERS



RECYCLABLE MATERIAL  
STORAGE BUNKER



# MACPRESSE IN NUMBERS

**1500+**

BALERS  
INSTALLED

**65+**

COUNTRIES WITH  
INSTALLED  
BALERS

**50+**

BALERS PER YEAR  
PRODUCED

**200+**

COLLABORATIONS  
AROUND THE  
WORLD

**15+**

PROPRIETARY  
PATENTS

**WORLDWIDE  
ASSISTANCE**

**50+**

COUNTRIES WITH  
PARTNERS

**50+**

YEARS IN THE  
MARKET

**40+**

COUNTRIES WITH  
SPARE PARTS  
STORES

© MACPRESSE EUROPA S.R.L. 09-2021

## CONTACTS

Find out more on [www.macpresse.com](http://www.macpresse.com) or contact us:  
e-mail [info@macpresse.com](mailto:info@macpresse.com)  
tel. +39 02 905 24 20



## SOLUTION FEATURES

\*Macpresse reserves the right to change specifications without notice.



HIGH DENSITY  
BALES



IMPERMEABLE



EASILY  
TRANSPORTABLE



OPTIMUM  
STORAGE



SEA  
TRANSPORT



ROAD  
TRANSPORT



RAIL  
TRANSPORT